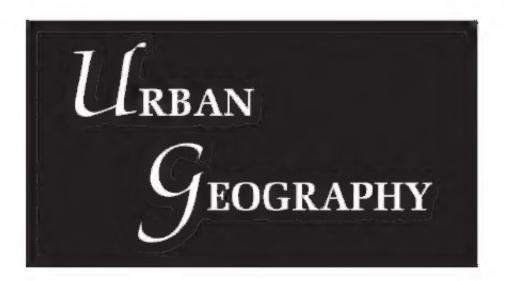


THIRD EDITION



THIRD EDITION

DAVID H. KAPLAN
STEVEN R. HOLLOWAY
JAMES O. WHEELER

WILEY

We dedicate the third edition of *Urban Geography* to James O. Wheeler, without whose energy and inspiration this work would not exist.

PREFACE

Jim Wheeler, a longtime professor of geography at University of Georgia and founder and co-editor of the journal *Urban Geography* for more than 20 years, decided in late 1999 that that the time was right for a new textbook in the field of urban geography. He saw that students needed a book that would uncover all of the excitement and richness found in cities, that would present urban geographical theory in an accessible manner, and that would tackle the variety of urban challenges. Moreover, he envisioned a textbook that would address the urban experience through time, from the origins of cities to the present day, and through space, looking at first at cities in the United States, but also uncovering the variety of urban experiences in cities throughout the world.

Jim soon brought together two other authors: David Kaplan, a professor at Kent State University, and Steven Holloway, a professor at the University of Georgia. The first two editions of this book clearly filled a niche in the area of urban geography, as it soon became the leading urban geography textbook in the field. As plans were made to develop a third edition, Jim Wheeler passed away at the end of 2010 after a lifetime of service to the field of geography. Dave and Steve decided to carry on the tradition and took over the writing and publication of the new edition.

This third edition of *Urban Geography* has benefited from comments of several outside reviewers and especially the comments from colleagues who use the book in their own classrooms. We appreciate all of the helpful suggestions and hope that this proves to be a much stronger book. The major revisions in the third edition involve reworking Chapters 1, 3, 4, 5, and 6. In addition to these major changes, every chapter has been updated to include information from the first decade of the twenty-first century. When possible, we have used information from the

2010 U.S. Census, although some of the information that was available in 2000 is unfortunately missing in the most recent census. We have also tried to include updated statistical and factual information from other countries when appropriate.

Dave Kaplan was primarily responsible for writing Chapters 2, 3, 5, 10, 11, 12, 13, 14, and 15. Steve Holloway focused on Chapters 1, 4, 6, 7, 8, and 9. We endeavored throughout this joint effort to make this a textbook that reflected our vision as a whole, so that the entire book is a product of both authors.

Dave Kaplan appreciates the input of several individuals. This third edition in particular benefited from the help of two students, Gina Butrico and Christabel Devadoss Moreover, Dave appreciates the graphics assistance of Jennifer Mapes. These individuals have added to the work of others who have also been instrumental in creating this urban geography textbook; James M. Smith, Leena Woodhouse, Samantha Hoover, Najat Al-Thuibani, and Rajrani Kalra. Dave is grateful to Jim Wheeler for having brought him into this project, and to Steve Holloway, for years of fruitful collaboration, of which this book is but the latest example.

Steve Holloway deeply appreciates the intellectual, professional, and personal support he received from Jim Wheeler, both during graduate school days as a young student of urban geography, and as a faculty colleague. Without Jim's eager and enthusiastic support Steve would not be the scholar or colleague he is today. Jim's presence and contribution is deeply missed. Steve also thanks his graduate students, who received much less of his time and energy than they deserve during the months he spent working on the third edition of the textbook. Several of Steve's University of Georgia colleagues have been a source of constant support and encouragement, especially Hilda Kurtz, who used the second edition of

this text in her classes and provided very useful feedback in the process of preparing the third edition. Finally, Steve is grateful to Dave for the mutual interest in all things urban, especially the conviction that any understanding of cities and urbanization without understanding their historical roots is deeply impoverished.

In addition, we thank the many people at John Wiley & Sons, Inc., who performed their essential, behind-the-scenes activities in producing and marketing the third edition of this book. We would like to offer especially strong thanks to Ryan A. Flahive, Executive Editor for Geography and Geology, who has directed us through all three editions of this book, Particular thanks also go to Denise Powell, who prodded us through that crucial first edition. For this third edition, we have been very happy for the kind and generous oversight of Darnell Sessoms who has been assisting us every step of the way. And at the

final production stage, we have appreciated the work of Brian Baker, Marian Provenzano, James Russiello, and Wanqian Ye at Wiley, our copyeditor Veronica Jurgena, and Lavanya Murlidhar at Laserwords.

> David H. Kaplan Kent, Ohio Steven R. Holloway Athens, Georgia

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Part I

Introduction to Cities and Urban Geography

1



AN INTRODUCTION TO THE CHANGING FIELD OF URBAN GEOGRAPHY

Since it has taken more than five thousand years to arrive at even a partial understanding of the city's nature and drama, it may require an even longer period to exhaust the city's still unrealized potentialities.

-Lewis Muneuko, 1961 r 3-1

The purpose of this chapter is, first, to introduce you to the field of urban geography within its historical and contemporary contest. We begin by looking at the array of fields and disciplines that are interested in cities, noting how urban geography both overlaps. with and is distinct from these fields. We then briefly describe some of the ways that urban geographers have studied the city. We then explore some basic but really important questions that confront anyone interested in the city (1) how to define the city, especially in relation to other lands of presumably nonurban places, and (2) how to define the spatial extent of the city and how to think about boundaries. At the end of the chapter we introduce you to the contents and approach of this book in order to capture the excitement and dynamics of modern urban geography, a field of growing educational importance as more and more people live in cities, both in the industrial and nonindustrial countries of the world

WHY WE STUDY CITIES

Cities are incredibly exciting places and are home to an ever increasing share of humanity. Although it has now been reported dozens of times, the mid-1990s marked the first time that more than 50 percent of the world's population lived in urban areas. By the mid-2010s, more than 3.6 billion out of the roughly 7 billion people on the planet lived in cities, and more than 1 out of every 5 humans lived in cities larger than 1 million in population. The trend only magnifies when projected into the future—the United Nations predicts that by 2050 about wo-thirds of the planet's 9 billion residents will call cities home.

The relatively recent transition into a majority orban world is all the more stark when we recall that just over 100 years ago, at the beginning of the twentieth century, only 14 percent of the earth's population lived in cities. One hundred years before that, at the beginning of the nineteenth century, only 3 percent lived in cities. Figure 1.1 demonstrates how rapidly the planet has urbanized over the last several centaries.

The urban population percentages are of course much greater in the advanced capitalist economies of the world, such as the United States and Canada, Western Europe, Japan, Australia and New Zealand, and the rapidly emerging economies of Korea, Singapore, and Taiwan. In the United States and Canada, over 80 percent of the population is classified as urban and virtually everyone is dependent

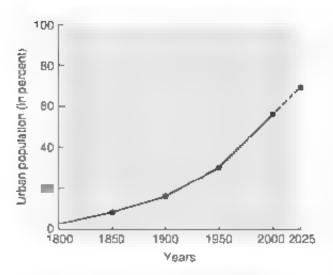


Figure 1.1 World urbanization trends. ∉800–2025 © John Wiley & Sons, Inc

on arban connections in everyday life. The world has become urban, and the advanced capitalist countries—themselves strongly binked—are almost totally locked into the urban way of life. Even sural areas in North America are utierly dependent upon large urban centers for their life sources, such as information, economic viability, social ties, entertainment and leisure activities, political expressions and attitudes, cultural attributes, and popular cultural manifestations of behavior. We are all part of the city, whether we physically live there or not

In 2010, over 83 percent of Americans lived in a metropolitan area, which is an extended form of urban area that consists of a large postically defined central city plus all of the surrounding counties that contain suburbs economically interconnected with the central city. This population was concentrated into less than one-quarter of the U.S. land area, The New York metropolitan area is by far the largest with 19.6 million people, compared to second-ranked Los Angeles with 12.8 million and third-ranked Chicago with 9.5 million (Table 1.1). Eleven other metropolitan areas have between 4 and 7 million population. Dallas-Fort Worth, Philadelphia, Houston, Washington, Miami, Atlanta, Boston, San Francisco, Detroit, R verside, and Phoenix, A total of 37 U.S. metropolitan areas have between 1 million and 4 million

people. The top 50 metropols an areas are home to more than half of the total U.S. population.

Among the 20 largest U.S. metropolitan areas (Table 1.1), the fastest growing between 2000 and 2010 were Riverside (29.8%), Phoenix (28.9%), Houston (26.1%), and Atlanta (24.0%). Some metropolitan areas with population more than 1 million grew exceptionally fast. Las Vegas and Raleigh, North Carolina each grew by an astonishing 41.8 percent, and Austin, Texas grew by 37.3 percent. Of the 20 largest metropolitan areas, Detroit lost 3.5 percent of its 2000 population, and Boston, Chicago, Los Angeles, and New York each grew at a very modest rate (<4.0%)

The importance of cities extends well beyond the demographic fact that most people live in and depend upon them. Noted urbanist Lewis Mamford wrote more than 75 years ago:

The city, as one finds it in history, is the point of maximum concentration for the power and culture of a community. It is the place where the diffused rays of many separate beams of life fa... into focus, with gains in both social effectiveness and significance. The city is the form and symbol of an integrated social relationship: it is the seat of the temple, the market, the half of justice, the academy of learning. Here in the city the goods of civilization are multiplied and man fooded. Here is where human experience is transformed into viable signs, symbols, patterns of conduct, systems of order. Here is where the issues of civihzations are focused, here, too, nitial passes on occasion into the active drama of a fully differentrated and self-conscious society (1938, p. 3)

What was true as Mumford looked back at the city in history a also true today. Cit es, great and mundane, are sites of power and importance in almost every realm of life, including politics, economics, iaw, education, and culture Richard Florida argued in his initial post on *The Atlantic Cities* blog (www.theatlanticcities.com) in 2011. "Cities are our greatest invention. They generate wealth and improve living standards while providing the density, interaction, and networks that make us more

Table 1.1 20 Largest U.S. Metropolitan Areas. in Population, 2010, and Percentage Change, 2000–2010.

Rank	Metropolitan Area	2010 Population (in milltons)	Percentage Change 2000-20 0
1	New York, NY	19.6	3.3
2	Los Angeles, CA	12.8	3 7
3	Chicago, IL	9.5	4.0
4.	Dalina Fort Worth, TX	6.4	23.5
5	Philadelphia, PA	6.0	4 9
6	Houston, TX	5.9	26.1
7	Washington, DC	5.6	16.5
B	M.ami, FL	5.6	11.1
9	Atlanta, GA	5,3	24 0
10	Boston, MA	4.6	3.7
11	San Francisco, CA	4.3	5.1
12	Detroit, MI	4.3	3,,5
13	R verside, CA	4.2	29.8
14	Phoen x. AZ	4.2	18.9
15	Seattle, WA	3.4	13.0
16	Minneapous-St. Paul. MN	3.3	10.5
17	San Diego, CA	3.1	10.0
18	St Louis MO	2.8	4.2
19	Tampa-St Petersburg, FL	2.8	16.2
26,	Bat more VID	2. 7	0.2

Source: U.S. Bureau of the Cervass, 2010, compiled by authors

creative and productive. They are the key social and economic organizing units of our time, bringing together people, jobs, and all the inputs required for economic growth."

Bruce Katz and Jennifer Bradiey point out in their recent book *The Metropolitar Revolution* (2013) how disproportionately important metropolitan areas are to the national economy. The 100 top U.S metropolitan areas occupy only 12 percent of the nation's land mass, but house two-thirds of its population and are responsible for three-quarters of the national total economic output. They argue that metropolitan areas increasingly matter because they "embody concentration and agglomeration—networks of innovative firms, talented workers, risk-taking entrepreneurs, and supportive institutions and associations that cluster together in metropolitan areas and coproduce

economic performance and progress. There is, in essence, no American (or Chinese or German or Bruzil an) economy; rather, a national economy is a network of metropolitan economies" (Katz and Bradley, 2013, 1)

Even for those who do not care for them, cries deserve respect and a sincere effort at answering basic questions. What is it that brings button beings together in such concentrated agg omerations that we call cities, urban areas, or metropolitan centers? Why do humans, who throughout almost all of their history lived in small, often impratory groups of kinship tribes at low population densities, have only in the past eight or nine millennia come to cluster in large settlements? Why was it only around 1900 that the total U.S. urban population first exceeded 30 million, a figure easily surpassed today by metropolitan

New York and Los Angeles combined? And why is it that in 1920 the percentage of urban Americans first came to exceed 50 percent of the total U.S population? And finally, why is it that more than 50 metropolitan areas in the United States and Canada with populations of more than 1 million people have emerged? What are these powerful seemingly mexorable forces pulling human beings increasingly together in our metropolitan regions and at the same time pushing its apart in the suburbs? The purpose of this book, in large part, is to provide insight and answers to these fundamental questions of human settlement concentrations and diffusions.

How We STUDY CITIES

There are many fields and disciplines that have an interest in understanding and studying the city. You may be majoring in one of these helds! In Figure 1.2, "The City" is depicted at the center of the image surrounded by multiple boxes with the names of academic disciplines. Each of these disciplines has a bronch that studies cities. For example, there is a long tradition in Sociology of studying. The City—urban



Figure 1.2 Since cities are such widespread and vilaparts of contemporary human custence, many traditional academic discipules have subfields that study oftes. Urban sociology, for example, is a very important subfield of sociology present from the origins of the discipline. Urban ecology, or the study of how cities affect and are affected by nonhuman environmental processes, is a relatively new subfield. Source: Authors.

sociology is one of the ma or subfields. Similarly, each of the other disciplines has an urban subfield. Some of these subfields have been around for a long time, like urban sociology, while others are more recent, like urban ecology, or the study of 'environmental" systems in and as affected by cities.

You will note that geography does not appear in Figure 1.2. This is because geography is a synthetic discipline, which means that geography's core concerns require knowledge produced by ALL of the other disciplines. The dimension across which geography synthesizes is space. Urban history is also something of a synthetic discipline that integrates across the dimension of time.

Figure 1.3 depicts Urban Geography at the center of the image, connected to the other disciplines with arrows that point in both directions. This means that urban geographers use information and knowledge produced by the other disciplines, but also that urban geographers produce knowledge and understanding that is used by the other disciplines.

In addition to the traditional disciplines that provide understanding of cities and urban systems, there are multiple applied disciplines that provide training in professions where people need to understand cities and/or want to change cities. First, urban planning is the most closely related to urban geography and can lead to careers in government or the private sector. Second, urban design and related professions like architecture, landscape architecture, and environmental design are also very closely related to urban geography—many students from these disciplines take urban geography, Third, public administration provides training for students who want to work in the public sector. While not all public administration. relates to cities or urban areas, professionals with PA degrees often end up in jobs that have a great degree of impact over the urban environment. Fourth, the age-old maxim of real estate is "location, location, ocation." Given that urban geography provides great understanding of location within urban eaviconments, real estate and development careers often provide opportunities to apply urban geographic knowledge. Fifth, engineering, civil engineering in particular, provides the practical skills that are

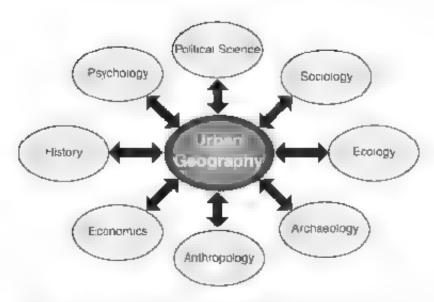


Figure 1.3 1 rban geography is a synthetic discipline that draws from and contributes to a variety of closely related fields. Source: Authors.

needed in the construction and operation of urban environments. Sixth, there is a broad array of nongovernmental and nonprofit organizations (NGOs) that attempt to improve the city and its residents

THE FIELD OF URBAN GEOGRAPHY

Our discussion so far shows how urban geography relates to other urban-focused disciplines, but we haven't been very specific yet about urbangeography's core substantive concerns. Geographers broadly study both the world's physical and human environments. They explore how humans have astered and are currently altering our natural landscapes, our atmosphere, our water, and our soils. Whereas physical geographers examine tandforms (geomorphology), long-term weather trends and patterns (climatology), and the natural and human modified spatial distributions of plant and animals (biogeography), human geographers focus their attention on the location of people and their activities over geographic space. This locational focus may emphasize economic activities and behaviors, social and cultural features of human society, and political and power relations as expressed in places or over spaces (regions). Urban geography is typically thought of as a subfield of human geography, a subfield that studies elties or urban areas. Today, however, urban geographero are increasingly concerned with the interrelationship between cities and biophysical processes, and with concepts of sustainability and resilience, which represents a bridging between human and physical geography

Urban geographers have centered their attention on the study of cities and metropolitan areas in two ways and at two scales. First, by stressing relationships among a system or group of cities at the regional, national, or global level, we adopt an intermetropolitan, or urban systems, approach. A saterate view of all of the city lights in the United States (Box 1.1) stimulates many questions about urban systems.

The second approach that urban geographers use highlights the internal locational arrangements of humans, activities, and institutions within metropolitan areas, known as an intrumetropolitan approach. Our questions shift to how space is structured within cites. Where is the downtown business

BOX I.1 Bright Lights, Big Cities

NASA has created a new composite of satellite images that depicts the intensity of light at night (Figure B1.1):

This image of the continental I mad States at a ght is a composite assembled from data acquired by the Suomi NPP rate lite in April and October 2012. The image was made possible by the satellate's "day-night band" of the Visible Infrared Imaging Radiometer Suite (VIRS), which detects ught in a range of wavelengths from green to near infrared and uses filtering techniques to observe dain signals such as city lights, gas flares, auroras, wildfires and reflected moonlight (www.nasa.gov/mission_pages/NPP/news/earth-at might birm.)

The nation's largest metropolitan areas are clearly visible—New York, Chicago, Los Angeles, and Atlanta are labeled. See if you can find a city close to where you live. The image prompts the kinds of urban systems, or intermetropolitan location, questions that urban geographers like to ask, Why are the cities located where they are? Why are some cities larger than others? How did cities

grow in the way they did? How do the cities interrelate with one another? If we had a similar image from 100 years ago, it would look much dimmer, of course, but some aspects of the basic structure and pattern of the system of cities would be similar. Why? The comparison would prompt us to ask, why have some cities, like Atlanta, grown as much and as rapidly as it has over the last 50+ years?

Another thing you should note on this image is what occurs between cities. Linear arrays of lights illnost look like strings connecting the large metropolitan brobs. These are highways, which suggests that we think about the ways in which it less are connected to one another. These connections can be via transportation infrastructure like highways or airlines routes, but linkages can also be in form of money, or information, or cinture. All of these questions illustrate our concern with arban systems—we will address these questions throughout the book.

It is interesting to note that this satelate image (when the colors are inverted) matches almost perfectly a detailed dot map—where each person is represented on a map by a dot—created from the 2010 census (http://bmander.com/ dotmap/index.html#4.00/40.00/ 100.00), which domon strates the convergence of very different forms of data collection and analysis to reveal the extent and pattern of urbanization. There are features visible on the NASA image, however, that cannot be seen on the

district located? Where do nich people live? Where do black people and/or immigrants live? Why and to what consequence? How does the city work in terms of internal transportation, including roads and highways, public transit, railroads, and a variety of other modes of getting around the city? Some of the topics that we consider using this approach include land use/land cover, land value, the evolving character of the built environment, the nature and health of the local economy, the nature of the social structure and how that is reflected in the spatial pattern of the city, typically thinking in terms of segregation, and nature—bow do cities after nonhaman environmental processes and how do cities govern and respond

to these environmental processes? The impacts of global of mate change in general, and sea level rise in particular, are of increasing concern to many cities, for example

At the same time that urban geographers may organize their analyses based on the scale or level of the urbanization process (by following either the intermetropolitan or intrametropolitan approach), they also differentiate their work by either studying a specific city (a case study) or cities in a specific region of the world (Russian cities, Arabic cities) or by examining topical issues (poverty, ethnicity) and attempting to fashion general explanations that apply to many cities in many regions. In this book,

dot map. The bridges crossing San Francisco Bay and Tampa Bay can be seen clearly in the NASA image.

for example. Also, oil-druling rigs along the Guil Coast can be seen in the NASA light.

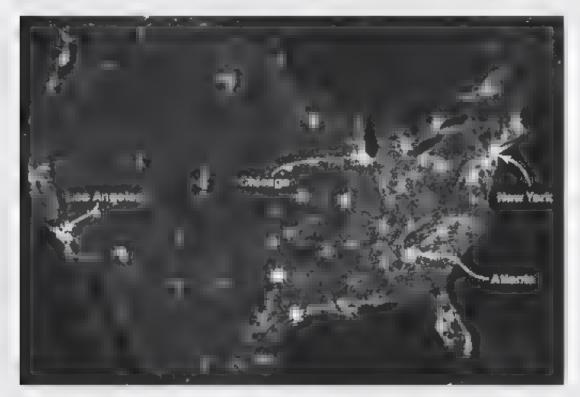


Figure B11 NASA composite of satellite images that depicts the intensity of light at high National NASA Earth clisservatory/NOAA National Ceophys cal Data Center www.nasa.gov. riss on_ pages/RPP/news/earth-ac-poght.htm

Part II (Metropolitan Systems—Chapters 3–5) follows the intermetropolitan, topical approach (lower left quadrant of Figure 1.4), Parts III, IV, and V (Chapters 6–12) adopt the intrametropolitan, topical perspective (lower right quadrant of Figure 1.4), and Part VI (Cities Around the World—Chapters 13–15) pursues the regional tradition, utilizing both intermetropolitan and intrametropolitan viewpoints along the top of Figure 1.4)

An important additional way that urban geographers study urban centers—whether at the intermetropolitan or the intrametropolitan scale—is by understanding the varying levels of interaction or

linkages among places, either among cities or among places within cities (Figure 1.5). For example, consider a group of urban areas within a region that are connected via volume of truck truffic. Some centers because of their size and proximity (interstate highways) to other centers, will experience a greater volume of traffic flows between themselves and the other centers. The volume of these flows is a measure of the spatial interaction, defined as linkages over space among the centers. Likewise, at the intrametropolitan leves, traffic volume will vary among the different districts, again displaying various levels of spatial interaction.

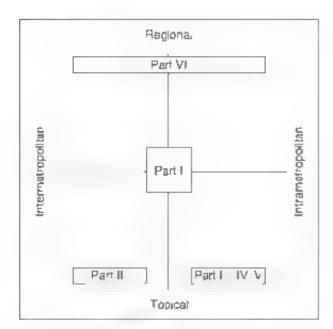


Figure 1.4 The vertical time represents the continuum between the regional (a study of a limited number of places over a larger range of topics or attributes) and the topical (a study of one or a few characteristics over a wide range of piaces) approaches to urban geography. The horizontal time displays the continuum, between time metropolitum (system of cemers and intrametropolitum activities located within a center) studies of urban geography. © John Wiley & Sods, Inc.

The Origin and Evolution of Urban Geography

Urban geography as a subdiscipline of the field of geography is a twentieth-century development. In 1900, when only 40 percent of the U.S population lived in cities, geographers were primarily interested in the physical landscape, especially the study of landforms or geomorphology (then termed physiography). Urban geography emerged gradually over the first half of the twentieth century based around a few key concepts developed by a small number of scholars. Some of the earliest work articulated the difference between site (specific, mostly physical characteristics of a location, and situation, where a site is located relative to other locations) in explaining the initial location and subsequent growth of urban settlements into cities.

Mark Jefferson's conceptual work on the geographic structure of systems of cities (e.g., his 1939) "Law of the Primate City") made him probably the best known early urban geographer and foreshadowed a large body of research in the late 1950s and 1960s on city size distributions (see Chapters 3) and 4) Chauncy Harris and Edward Ullman had a major impact on the field, exemplified by their early post-World War II essay on the spatial structure of cities (1945), which became one of the three classic models of intraurban spatial structure (see Chapter 7). and continues to appear in contemporary arban geography and sociology textbooks (see Harris, 1997). The first formal urban geography courses were taught in the late 1940s and urban geography grew into a major substantive subdiscipline a decade or so later and through the second half of the twentieth century. (Berry and Wheeler, 2005).

Approaches to Urban Geographic Research

Since emerging as a major substantive subdiscipline in the 1950s, urban geography has been characterized by multiple approaches to research. Epistemology is a branch of philosophy concerned with how and under what conditions knowledge comes to be produced-how the world can be known, Urban geographers often characterize their work as belonging to one or more of four major epistemological approaches—that is, there are four major ways that urban geographers have sought to produce knowledge about and for othes: (1) pos-(iv.sm, (2) structuralism, (3) humanism, and (4) poststructuralism, which we will discuss in turn. Our use of these terms is not intended to conform to a strict understanding of the philosophical tenets of each approach, considered in abstraction. Instead, the terms are offered as broadly descriptive of the ways that urban geographers have understood their work

Positivism Positivism is the epistemology of the scientific method. While most scientists do not spend a lot of time reflecting on the philosophical assumptions and convictions that undergird their work, if

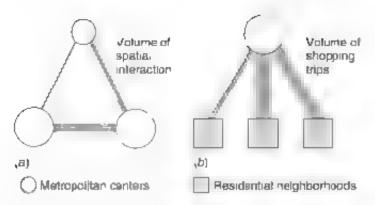


Figure 1.5 Schematic diagram illustrating hypothetical levels of spatial interaction or linkage intensity (a among metropolitan centers and (b) among distribution points (warehouses or manufacturing plants) and an urban market. An example of Figure 1.5a is the number of airline passengers moving among the three urban centers in a given year, and an example of Figure 1.5b is motor truck volumes among places. Source: Authors

helps to do so here. This approach to urban geography assumes that a "reality" exists outside of our ability as students and researchers to comprehend it It suggests that the only authoritative way to produce knowledge rests on ngorous empirical observation. of repeatedly co-occurring events, connected with generalizing and theory building through hypothesis testing. Researchers strive to be objective (let the facts speak for themselves) and to produce work that can be subjected to venfication/falsification by other scholars. Knowledge is thought to be cumulative and to have a liberating impact on society. Several streams: of research in urban geography roughly fi into the positivist approach. While positivism has received intense criticism in urban geography for reasons discussed below, most urban geographers who practice this approach to research simply think of what they do as "science" and do not explicitly adhere to the philosophical tenets of positivism.

Structuralism The epistemology of structuralism agrees with positivism that there are broad reactives that can be understood via human inquiry. Structuralism disagrees with positivism over the ability of detached observation of repeatedly

co-occurring events to produce that understanding. They argue instead that the forces that truly cause the observable characteristics of our world cannot be directly observed—they are deep structural realities that resist easy measurement. Structural logic is most often equated with Marxism in urban geography, even though there are a variety of structural approaches. Marxism's structural logic argues that the urbanization process can only be understood in relation to a deeper understanding of capitalism in its various historical forms.

Humanism Humanistic geographers criticized the positivist approach by offering some of the same critiques as behavioral geography (defined below), especially the presumed rationality of human behavior. They also offered their own critiques regarding the dehumanizing impact of treating humans like clinical subjects and considering as valid only things that can be measured. Instead of scientifically verifiable knowledge, based on reproducible methods, humanism focuses on meaning and experience. It was less concerned with a theoretical perspective and hypothesis testing and more concerned with attitudes, perceptions, and values toward place and the land-scape. One of the most widely known advocates of

humanistic geography is Yi-Fu Tuan, who reflected on its meaning (1976, p. 266): "Humanistic geography achieves an understanding of the human world by studying people's relations with nature, their geographical behavior as well as their feelings and ideas in regard to space and place."

Tuan coined the term topophilia, which is the love of the land and the title of one of geography's best-selling books. An example of humanistic geography would be an urban geographer walking through downtown St. Louis, who is not interested in numerical data or generalized models of downtown land use or structuralist explanations of the poverty he or she observes. Instead, this geographer seeks to experientially interpret the surrounding smells and sounds as well as the nearby sights and longer views of downtown St. Louis.

Poststructuralism Several streams of urbangeographic research share epistemologic critiques of positivism, structuralism, and humanism. While these research streams are quite distinct from one another, we think of them as sharing many poststrucmatter characteristics, one of which is a rejection of the idea that ultimate generalizable truth can be discovered. Some argue that there is no such truth. while others are agnostic about the existence of such truth but argue that it is not knowable. They levy this emague against both positivists and structuralists. They view humanists as being disengaged from pressing concerns with power and injustice. Instead, poststructuralists offer a variety of objectives for human inquiry. While not shared by all research streams that we call posistructuralist, many head that there are realities, but that realities are confingent on the historical and geographic setting. Many also argue that realities are not essential but instead sociatly produced. The goal, then, is to understand how situated and socially produced realities operate, and with what consequences, in specific contexts. The goal is not to produce knowledge about truths that operate everywhere in the same way, which is how positivist inquiry is often understood.

STREAMS OF URBAN GEOGRAPHIC RESEARCH

While most urban geographers have some sense of the broad approach in which they work, they typically identify more closely with specific streams of research. We describe several of the more prominent research strands that have characterized the vahiliscipane of arban geography over the years (Figure 1.6). For the most part, these streams fit within the four research approaches described above, but several streams have shifted their approach over time, as discussed below.

Spotial Analysis

Spatial analysis, also known as spatial science, was the first research stream to dominate urbangeography It belongs to the positivist approach, although some recent scholars argue that the methods of spatial analysis can be used to support entical research agendas. It largely relied on the tools and theories of neoclassical economics, especially with regard to the presumed rationality of human behavor Early post-World War II urban geography was greatly influenced by three German scholars, geogcapher Walter Christalier (1933) and economists August Lösch (1938) and Alfred Weber (1929). Christaller's and Lösch's work on urban settlement patterns in southern Germany came to be known as central place theory (see Chapter 3, Box 3.2). Weber's sample but insightful theory explained ndustrial location based on three factors, minimusing transport cost, minimuzing labor cost, and cost saving from agglomerative location (proximity to other firms, typically within cities or regions of cities). Torsten Hägerstrand's (1967 [1953]) Innovotion Diffusion as a Spatial Process generated a firestorm of research activity in urban geography British geographer Peter Haggett (1966) insightfully synthesized the early outpouring of spatial analysis research, most of which was conducted in the United States, and provided a more solid and confident foundation to the "new" quantitative spatial analysis that dominated urban geography through the 1960s.

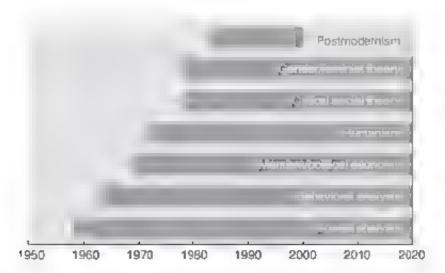


Figure 1.6 Research approaches in urban geography, 1950–2020. Although here presented as districtive research approaches, these research streams in fact merge into one another, are derivative, and/or are critiques of earlier research styles, Source: Authors.

A defining characteristic of spatial analysis research in urban geography is the use of statistical and mathematical models, a methodology also adopted in most other social, hidogreal, and physical sciences. Taaffe (1974) characterized the introduction of these techniques into geography as a three-part revolution. (1) technical (statistical and mathematical). (2) theoretical, and (3) definitional Basic statistical techniques were applied to urban data to establish generalizable relationships; theoretical models were advanced by setting forth and testing hypotheses, and geography became defined as a generalizing and scientific, rather than a descriptive, field. These changes in ideas led to a rejection of earlier approaches that emphasized describing unique places.

Behavioral Urban Geography

Behavioral geographers argue that the aggregateievel analysis (examining large groups of people) that was used by most of the early spatia, analysis was too broad to explain how individuals and groups of people behave in urban settings. Behavioral urban geography follows the scientific/positivist approach used by spatial analysis, but studies how individuals make spatial decisions, for example, where to buy a home or how to wheth the less mute to work Behavioral geographers questioned the assumption of rationality common to much early spatial analysis. They instead emphasized individual's attitudes and expectations of places, specifically, how they learn about different parts of the city, make geographic choices and decisions, assess risk and uncertainty and the nature of their daily spatial behavior. There was overlap between behavioral urban geography and the discipline of psychology.

Marxist Urban Geography and Urban Political Economy

Beginning in 1969 with the publication of Antipode. A Rudical Journal of Geography at Clark University, Marxist interpretations of the geographic landscape became increasingly common. Marxist urban geographers, exemplified by David Harvey's Social Justice and the City (1973), saw spatial analysis as too preoccupied with geometric arrangements of locations and

surface correlations, and thus mable to uncerstand and challenge injustice. For example, most industrial location theory focused on the profits of industrialists rather than concerns of the working class (Massey, 1973). Marxist geographers instead emphasized the importance of anderstanding the structure of capitalist production and its labor relations in studying and confronting the underlying causes of several injustices including urban poverty, discrimination against women and minorities, unequal access to urban social services, and Third World underdevelopment. Markist urban geographers studied these phenomena. in terms of their inherent contradictions, and where and how phenomena fit within a wider social and economic context. Understanding the sanictural roots to complex social problems was thought to create the potential for revolutionary social transformation. Radical and Marxist urban geographers saw themselves as working in concert with other radical social movements that emerged in the late .960s and early .970s

The anger and radical activism characteristic of the early years of Marxist arban geography has matured into one of the strongest and most widety recognized of the urban geography research streams. This stream is now more commonly known as urban political economy and has come to focus on the changing relationship between politics, under stood broadly, and the economic structure of social relations. The structure of urban systems and the internal structure of cities are understood to both reflect and constitute the political economy of cities. Substantively, urban political economy has devoted considerable attent on to the rise of economic globaugation and to the changing relationship between governments and urban economies as affected by nephberal political ideology. Many urban geographers working in the political economy tradition do not espouse strongly structural perspectives and produce work that is sympathetic with several poststructural streams of research, discussed below

Critical Social Theory in Urban Geography
The late 970s and the 1980s witnessed the development and incorporation of a variety of critical

social theory into human geography in general and urban geography in particular Social theorists take on a critical political perspective, "dedicated to changing the world in some way for the better Social theory is almost always leftist in style, character, and intent-that is, dedicated to human emancipation" (Peet, 1998, p. 7) Social theorists rejected the notion that spatial relations-distance, rate of diffusion, ntervening places-determined such socia, activities as commuting and migration, rather, they argued that social relations explained the observed spatial or geographic distributions or patterns identified on maps. The "human agency" or social context and power relationships must be uncovered and under stood before we can comprehend spatial attributes. All human reality is "somally constructed," that is, created by humans

Feminist Urban Geography

Gender studies and feminist theory entered meaningfully into geographic research in the 1970s. This stream of work fe,) into three of the four enistemologreal approaches. Early work, like Hanson and Hanson. (1980), for example, studied journey to-work patterns of males and females in Uppsala, Sweden, and found that "a significantly lower level of mobility existed for working women than for working men" (p. 294). They used the toots of spatial analysis to examine questions about gendered dispanties. Throughout the 1980s and to the present, interest in feminist geography greatly accelerated. As Melissa Gilbert (1997, p. 166) has observed, "Femmist research on urban processes and daily life is flourishing, as evidence by the proliferation of conference papers, journal articles, and books on these topics." She also noted that "many feminist urban geographers have begun to examine the diversity of women's experiences in cities, and the ways in which different structures of inequality shape urban processes" (p. 167).

Feminist theory and feminist urban geography took on a more structuralist character as the links between patriarchy and capitalism were explored, especially with regard to the structured roles assigned

to women for the responsibilities of social reproduction. Significant progress was made linking urban spatial structure (e.g., suburbanization) with the gendered division of labor and a set of domestic responsibilities that enabled the exploitation of labor.

More recently, feminist theory has become quite diverse and resonates most strongly with the post structural approaches as described here. Feminism. maintains its focus on power and oppression, but argues that patharchy cannot be understood solely from its relation to capitalist structures. "Feminist theory argues that gender, like class and race, is a basic building block of social organization. To this extent gender relations rustain a system of power capable of shaping , capacities of individuals. Gender...is not a...given of biology. but is a product of male and female actions that is institutionalized through families, schools, the workplace, and the state" (Pickles and Warts, 1992, pp. 312-313). Gender is part of an intersectional array of systems of power; it is socially constructed with material consequences. Feminist epistemologres have become much more numced and varied than during earlier phases of femialst scholarship These understandings have helped bring a feminist consciousness to the study of urban geography, in contras, to earlier approaches that assume a "masculine" city. Gilbert (1997) succinctly summarized the current status of feminist urban geography "Feminist urban geographers, while maintaining the significance of gender as an analytic category, are now examining at a concrete level how different structures and relations of inequality are mutually and spatially constituted. The exploration of differences in women's experiences of this city often requires reconceptualizing femilias urban theory" (p. 168)

Postmodern Urban Geography

The introduction of postmodernism to geography can be traced, in part, to writings by Michael Dear and Ed Soja during the 1980s (summarized in Dear, 1988 and Soja, 1989). Postmodernism, like other streams in the poststructural approach, rejects science as the only valid way to generate knowledge. Its critique of positivism and structuralism was perhaps the most severe, however, and postmodernism became one of the most convoversial research streams. Part of the difficulty was that many scholars and students confused a set of societal changes that were described as postmodernity with the research agenda of postmodernism. The former began several decades before geographers engaged—society became cynical of the prospects of rahonality and science to soive pressing social problems. Cynicism and skepticism increasingly permeated Western societies, and was followed by cultural fragmentation and celebration of difference that led to social political, and economic fragmentation

Postmodernism, by contrast, is generally fied to trends in art and architecture that began in the 1970s Before, the dominance of high modernism was grounded on extremely simple unadorned forms that reflect and facilitate the function of the structure rather than calling attention to the form. Many of skyscrapers in downtown built in the early post World War II period are extreme examples of this approach. Postmodern design rabe led, and reveled in the pastiche of many lowbrow design elements. in nonreferential assemblages. Brought into the academy, postmodernism was a culture-centric rejection of the perceived sterility and anonymity of spatial analysis and the overbearing nature of Marxist structural sm. Michael Dear declared in The Postmodern. Urban Condition (2000, p. 1): "The tenets of modernist thought have been undermined, discredited; in their place, a multiplicity of new ways of knowing bave been substituted"; he commund "As these geographies of the twenty-first century are being born, the rise of postmodern thought has encour aged, even insisted on new ways of seeing. Founded on a sensitivity to difference and radical undecidability, postmodernism has brought into question the ways we need, represent, and make choices."

Beyond the rejection of modernism, however, it proved to be difficult to define what postmodernism is In fact, given its spurning of categories, as well as its many and varied interpretations, postmodernism virtually repudates any simple definition. It rejoices

in complexity and plurality, the subjective and indefinable, and disorder and contradictions. While postnodernist scholarship wishes to unleash repression and inhibitions created by the forces of modernism, and cuminate such sociatly based power relationships as racism and sexism, many criticized it because its ambiguity and complexity undermined a clear progressive political strategy. Despite drawing considerable attention through the mid-1990s, few urban geographers today claim to work in this approach, and its attendant controversy is mostly gone.

Geographic Information Science and Urban Geography

Geographic Information Science (GISci) is one of the most recent and fastest growing areas of geography GISc: evolved out of traditional subaseas of geography such as cartography remote sensing, and image processing of sale...te data, as well as computer science and geodata coding. In many ways urban focused GISci is the contemporary version of the spatial analysis stream of research. Following the wording adopted by the U.S. Geological Survey, Geographic Information Systems (GIS) is defined as "a system of hardware, software, and procedures designed to support the capture, management, manipulation, analysis, modeling, and display of spatially referenced data for solving complex planning and management problems " GISci/GIS became crystallized as a distinct subfield in the mid-1980s and by the late 1980s had become a common offering in the North American college and university curricula-GIS continues as the leading growth area in geography in the twenty-first century as reflected in job creation, papers presented at professional meetings. and in the publication of books and especially articles in academic journals. GIS and its associated technologies are increasingly present in daily urban life (Box 1.2).

GIS has natural appeal to urban geographers, who make routine use of GIS in planning, research, and teaching. Government agencies, including those involved in urban and regional planning, and academic researchers in urban studies have greatly

expanded the scope and possibilities for applications of GIS to urban issues and problems

GIS utilizes geographic data, which are characterized by geographic space and geographic scale Geographic space requires that the data be registered in terms of coordinate space, commonly x-y axes such as longitude and latitude so that point, ...aear, and area data from different sources can be cross-referenced. Geographic scale implies that data recorded for small areas may need to be displayed of analyzed at different and more specialized or generalized scales, especially in highly complex urban areas.

Figure 1.7 shows several typical data layers of an urban G.S. Some of the data, such as retail sales per establishment, may be represented by coordinate points. Other data, for example administrative or political units, may be measured with polygons, that is, a series of lines enclosing an area. Still other

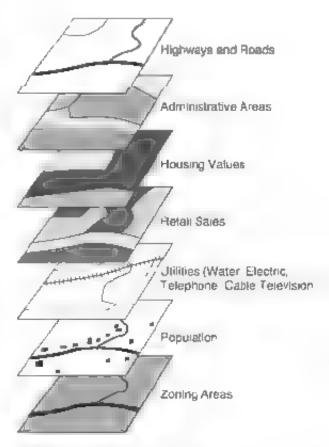


Figure 1.7 An example of data layers of an urban GIS © John Wiley & Sons, Inc.

BOX 1.2 Technology and Lrban Geography

GLOBAL POSITIONING SYSTEMS (GPS)

Developed originally by the U.S. Department of Defense for minitary navigation, the Global Positioning System (GPS) now has a large and growing number of urban apptirations. GPS is simply a technology that allows the accurate determination of precise locations on Earth

The principles behind GPS are fairly basic, but the implementation of GPS required a high-tech molubilitiondollar investment by the U.S. government. The system involves a constellation of 24 satellites grouped in predisely spaced orbital planes approximately 12,500 miles. above Earth. Each sate, lite broadcasts radio signals to Earth, where a person with a GPS receiver can intercept the signals. The sate, lites and Earth receivers operate with synchronized electronic clocks, allowing unerring accuracy in calculating the time it takes radio signals, traveling at the speed of light, to reach a particular spot on Earth (Figure B1 2). Through a triangular process myolying three (sometimes four) satellite signals, the location of the GPS receiver is found with an accuracy of 15 to 30 feet. A moving OPS received may give somewhat less exact measures.

A major urban application of GPS, avolves the installation of sate lite-receiving devices on automobiles to track stolen cars. Another urban application is surgically implanting rice-sized microchips to pets to help reunite. them with their owners. Similarly, postuoning devices can be placed on cellular phones to aid in finding lost hikers. and, as the price of GPS receivers continues to decime, to retrieve tourists and conventioneers lost in our modern urban labyranths.

How far should the application of GPS go in urbantotal space? For example, should society permit the

implantation of nucrochip GPS receivers in Alzheimer's patients in the event these patients should wander off? Should the technology be used to track paroled prisoners, including child molesters, or shadowy drug dealers, or ruspected unfaithful spouses? In neighborhoods that fingerprint children, why not insist on inserting a helpful GPS microchip in each child? Clearly, as with other technologies, there are many possibilities, and then there are the mora, issues.

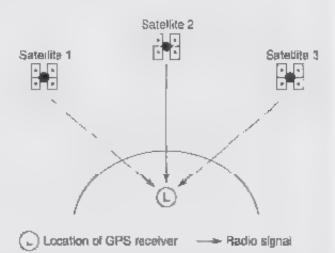


Figure B1.2 Triangulation from sate, htes sending radio signals, traveling at the speed of light, allows the exact. location (1) of any place on Earth to be determined, based on the time it takes for the three radio signals to reach a GPS receiver having an electronic clock on Earth synchronized exactly with clocks in the satellites. Source L S. Census Bureau

data such as roads, streams, or utilities can be ren-Jered in a linear format. GIS allows these data to be integrated for display, modeling, analysis, and management, despite the different formats of the original data

Businesses in urban areas use GIS to integrate data from a variety of sources to plan for market

area change, to analyze sales performance, and to select locations for new businesses or identify existing locations where performance is unsatisfactory Data may be derived from U.S. Census and other governmental sources, from consulting firms, and from company records. The data may be based on census tracts, local planning districts, traffic activity zones,

ZIP codes, retail market areas, or individual household interviews. GIS will allow these data sources to be combined to analyze various business growth scenarios, to project the likely impact of firm expansion, added competition, or new technologies, and to determine needed shipments among supply and demand points. In general, the spatial models developed and applied in the 1960s are increasingly being utilized in GIS in urban business enterprises, in urban planning, and in academic urban research and teaching (Sut. 1994).

DEFINING CITIES

Rural-Urban Continuum

In order to understand the nature of cities and the arbanization processes that shape them, we need to think about how we define cities. We will do so in two ways. First, we will use the notion of a rural-urban continuum. The rural-urban continuum aum recognizes that places have a wide variety of characteristics and we are interested in the range of place types that extends from rural—or places that are clearly not urban in any meaningful way—on one side of the continuum, to places that are very urban—that anyone would recognize as being a city. So, for example, a wilderness area or an area with

very few farms would be considered by most people to be not urban or rural in some meaningful way. On the other hand, in the U.S. context New York City, specifically Manhattan, is clearly the most iconically urban place in the entire country. Figure 1.8 visualizes the raral urban continuum, along with some of the distinctive characteristics of places that occupies its end points.

Remember, however, this is a continuum of place types, which means that it is not just the end points of the continuum that we need to identify there are all kinds of places in between the end points. Where do we position these places along the continuum" Clearly, we would locate cities, large and small, on the urban side of the continuum. But what about a small ham et, a cluster of houses with very little commercial or institutional land use, or a village, which is larger and has some commercial and institutional and use? What about lowns, which are larger still? Or what about suburbs? Some of the older suburbs developed in the early twentieth century are quite urge and dense and belong on the urban side of the continuum. Other suburbs are developed with very low density on the far flung exurban edge of metropoutan regions. Are these places on the rural side of the continuum?

The rural-urban continuum leads us to think about the criteria that we can use to divide—to draw a line across—the continuum and to better understand the

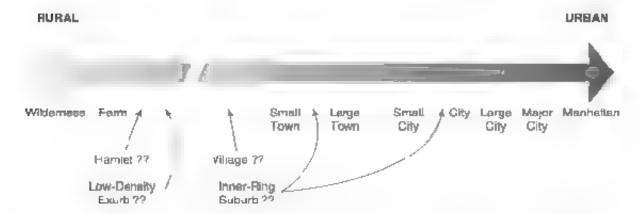


Figure 1.8 Rura furban continuum. Governments and researchers often classify settlements into furban and rural for monorban. In reality settlements have that uple characterisates that can be thought of as being continua. The challenge is to set emena by which the distinction between urban and rural places can be drawn. *Source*. Authors.

essential characteristics of cities. One is related to population. Clearly, c ties have more people than do places that are not urban. Seems pretty sample! Even so, this enterior can vary considerably depending on which country we are looking at. Some countries will define as urban a place with as few as 200 residents. n other countries, for example in the United States it. has long been the tradition that you need to have 2000. people in a town in order to consider that town urban Other countries set that threshold at a much larger number, even as high as 20,000! So you can see that the criterion of population gets applied in different ways in different places.

But conceptually, population alone is not sufficient-we also need to know how densely settled the population is. In other words, we need to know something about how large the settlement is relative to the population living there. So a second criterion is density urban places are more densely settled than are raral places. So together, population size and population density take us a pretty long way toward being able to distinguish be ween cities and noncibes.

But here is a caveat, there are very sparsely populated spaces that are clearly arban, especially in the Western countries and especially within the United States, Think again, for example, of extremely low-density development on the exurban frange of a targe metropolitan area like Atlanta. Even though they have some of the characteristics of small town or rural life, they are strongly connected to the greater Atlanta metropolitan area in meaningful ways. And we probably would want to consider those spaces to be urban. On the other hand, there are spaces that are densely populated with large populations, where almost everybody who lives there is farming or fishing for a aving. Do we really want to consider that space and those people to be fundamentally

In addition to population size and population density additional criteria can be social, and they can be economie; they can be political and they can be culiural. They can be ecological or they can be archite. tural or design related. The key is to think critically and comprehensively about what makes cities fundamentally different from spaces that are not ettles

Urban theorist Neil Brenner argues that the rural urban continuum is antiquated and misleading. He argues instead that urbanism is so deeply embedded globally—as part of political, economic, social and cultural systems, facilitated by rapidly advancing telecommunication capabilities—that it makes no sense to think of any place as not urban Instead. he argues that we should think about planetary urbanism and dispense with trying to distinguish the urban from the (nonexistent) rural (Brenner and Schmid, 2012.

What is the Spatial Extent of Cities?

As we continue our discussion of how to define cities. we shift to a focus on defiring the spatial extent of cities. In other words how do we define the bound aries of cities? There are two broad approaches to defining boundaries.

Functional Approaches One way to define the city's spatial extent is to think about its sphere of influence—that is, the space that is heavily influenced by the city Tributary areas refer to the movement. of consumers from a surrounding area into a city or the movements of urban goods or services out to a surrounding population. Think about a hospital, for example, that provides services to people who live in the city but also to people who live outside of the city and travel in for medical services. This is a tributary area Or, think about sports teams. Athens, Georgia is home to a successful college football team and folks come in from a long distance away to consume a live sporting event. Both of these examples, flustrate. that a city has influence culturally, economically, and commercially on an area that is larger than the city itself

Another way in which cities have a sphere of influence larger than the city itself is the daily urbansystem, which captures the daily movements of labor—that is, workers. The daily urban system describes the space from which commuters will move into the city for employment. We sometimes refer to these spaces as labor sheds and/or commuting fields. What it reflects is the daily economic, social, and even political interchange that a city has

with its surrounding areas through this process of commuting

Formal Approaches So far, we have discussed ways to functionally define city boundaries in terms of their spheres of influence on their surrounding areas. Formal approaches designate the actual boundaries of urban places. The most common formal approach refers to the legal boundaries of the incorporated place or city. This is typically what we mean when we say "the City of "-the City of Atlanta, for example. Note that formal city boundaries can be very different from what people often think of as "the city." In Atlanta, for example, the formal city boundary defines a pretty small area with a pretty small population (\sim 500,000), relative to the population of the entire metropolitan area (>4,000,000). Surrounding the City of At anta are dozens of legally incorporated suburban jurisdictions and lots of unincorporated land that is governed by the county-sevel government

We call formally bounded cities that are smaller than their "real" or functionally defined area of influence under bounded (Figure 1.9). This exists very often in older metropolitan areas, where formal boundaries were set early in history. As the city grew, separate legal junsdictions often surrounded the older city. There are other cities, however, that are overbounded, and include a lot of undeveloped space within the formal city boundary. Overbounded clies are much more common in the U.S. West and the Southwest, where rapid urban growth has come in recent decades. In all metropolitan areas in the United States, there is a complex array of legal junsdictions-and not just cities and their legally incorporated suburbs, Infrastructure and services. like fire protection, school districts, and water and sewage, are often organized in legally recognized pansdictions that often do not fit neatly within the legal cities. Overall, metropolitan areas suffer from jurisdictional fragmentation, which is confusing and often politically contentious.

A second formal approach to defining urban boundaries is for statistical purposes—that is, boundaries that are set in order to facilitate the collection and dissemination of data. These are stat stical boundaries. In the United States, the Census Bureau has the coast tational mandate to enumerate the population. The Census Bureau also collects a lot of really important data about the population. The Census has a wide array of formal boundaries that are set by the Bureau. One set of boundaries captures small areas within cities. Starting with the smallest areas, called blocks, the Census formally sets boundaries for the entire dation for these areas in which several hundred people live Blacks are used in the redistricting process. Block groups are groups of blocks and contain on average about 1 000 peop c.

Tracts are made up of groups of block groups (they call thus arrangement "nested") and house on average 4,000-6,000 people. Tracts are the units that are thought to best represent the idea of "neighborhood" (though there is a lot of debate about how well they do so) and are widely used in every arena. We have a set of data for these areas that now extend back many decades, which allows us to conduct research on neighborhood change

The Census Bureau also defines urban boundaries in other ways. Urbanized areas and the smaller urban clusters have their boundaries set by the Census Bureau to reflect the most on-the ground patterns of urbanization. These boundaries encompass the contiguous arban built-up area-the area that has urban land use. These boundaries are the most consistent with what you might "see" as an urban boundary from an aerial photograph or satellite image. The downside of arbanized areas/urban clusters is that their boundaries change dramatically over time as the urbanization process continues.

The last Census boundary concept that we want to discuss is the Core Based Statistical Area, or CBSA. This concept altempts to formally represent the broader region around a city or cities that is functionally integrated. The building blocks for CBSAs are whole counties-they are either in or they are out New England has two sets of CBSA bouncaries, one based on counties, and the other based on townships. There are two types of counties in CBSAs. One is the core county, which must have a core urban area with



Figure 1.9. The city of Atlanta is ack is surrounded by many legally accorporated places, gray, and itustrates both the underbounded nature of the city and the problem of jurisdictions, fragmental by Nouris Authors

a population of either 10,000–50,000, σr a population greater than 50,000

Additional counties are added to core counties when they are contiguous (meaning that they touch) and sufficiently interconnected on a daily basis, largely in terms of commuting. So, when a county adjacent to a core county has a sufficient share of its residents who work in the core county (> 25% — the added to the CBSA. Commuters can also come from the core county into the adjacent county. This is the Census Bureau's attempt to approximate the daily urban system using a consistent geography that is very stable over time.

CBSAs are classified into two categories, depending on the size of the city in the core county. **Metropolitan areas** have as their core an urbanized area that exceeds 50,000 in population

Micropolitan areas (Box 13) have as their core an arban cluster with population between 10,000 and 49 999

In order to reflect the fact that metropolitan areas are growing ever larger and ever more influential over a broader area, combined areas are literally the combination of metropolitan areas with other adjacent metropolitan areas and/or adjacent micropolitan areas if they (a) share a boundary and are (b) economically interconnected through commuting.

INTRODUCTION TO THIS TEXTBOOK

As we have discussed, urban geography has evolved into one of the leading teaching and research subarcas of geography over the past few decades. Urban geography has been taught to tens of thousands

BOX 1.3 MICROPOLITAN AREAS

The U.S. Office of Management and Budget (OMB) regularly updates its guidelines for defining metropolitanareas in the United States, known as Metropolitan Statishcal Areas (MSA). In the late 1990s, OMB conducted a comprehensive review of the concepts and definitions. associated with metropolitan areas (the Metropolitan Area Standards Review Project [MASRP]). As a result of this process, the OMB issued new rules m 2000 that altered the concept, terrotoology, and definition of metropolitan areas. The updated concept is based on the economic and social relationship between a core urban nies and its surrounding area. The concept builds areas with whole counties, except m New England, where an additional set of areas is defined using towar. The rules result in a set of Core Based Statistical Areas (CBSAs), Metropolitan CBSAs (MSAs) are centered on a core county containing at least one qualifying urban area with at least \$0,000. people (also known as urbanized areas), plus adjacent counties that are strongly linked with the core by an employment interchange (commuting) of at least 25 percent

The 2000 OMB rules also created a new geographic designation called micropolitan areas Micropolitan

of undergraduates in recent years, many of whom have gone on to pursue graduate degrees and careers in urban geography, urban and regional planning, public administration, and related fields, as well as in teaching. To a great many students, the study of urban geography has proved to be a fascinating and stimulating field with high relevance to everyday life Having provided a contemporary overview of this field, we conclude this chapter with a brief summary of his textbook.

Following this introductory chapter, we turn to the origins and historical developments of cities. Why did early cities arise when they did, and why did they prosper in certain locations and not in others? These first two chapters constitute Part I of the book. Part II, which constitutes Chapters 3 and 4, focuses on metropolian systems. Chapter 3 introduces theories

areas are also a CBSA and are built on a county containing at least one qualifying urban area with population between 10,000 and 49 999 (also known as urban clusters). Surrounding counties can be added if the employment interchange (commuting) between the core and adjucent counties is sufficiently strong. Micropolitan areas capture the concept of a small city and its functional surroundings.

The OMB assued lightly refined rules in 2010, which were implemented in the 2013 definitions. Figure 813 shows an example of micropolitan areas from nonrnetropolitan Georgia. Dublin, Georgia, is a small city (2010 population of 16,201) located in central Georgia. It qualifies as a micropolitan core. Located in Lanrens County (population 48,434), Dublin is connected with Miscon and Savannah via Interstate 16. Not only is Laureni. County a teneropolitum area, but so in adjacent Johnson County, just to the northeast, because a community interchange of over 25 percent exists between the two counties. The principal city to Johnson County (population 9 980) is Wrightsville, with a 2010 population of 2,223. The two-county interopolitan area has a combined 2010 population of \$8.414. Wheeler County (2010 population 7.421) is also located adjacent to Laurens County,

and issues associated with the evolution of the American urban systems, including the American urban hierarchy, during the years 1630-2010. It addresses the concepts of metropolitan dominance, urbanization processes, and contemporary urban-economic restructuring. Chapter 4 treats the world urban system from a globalization perspective, examining world cities and the role of capitalism, linkages among world cities, and the role of multinational corporations. We highlight the role of telecommunications in facilitating the global urban system.

Part III. Chapters 5 and 6—turn to the economic landscape within metropolitan areas. Chapter 5 explores the changing role of the downtown or the central business district, and the rise and development of suburbanization of people, retailing, and manufacturing during the twentieth century. This study of the economic landscape is followed by an

but is not part of the micropolitan area. Whereas there are relatively few jobs in Johnson County and the highway commute to Dubha is only approximately 15 miles

over a good quality two-lane road, the trip from McRae, county seat in Wheeler County is more than 30 ames over a fair quality two-lane road.

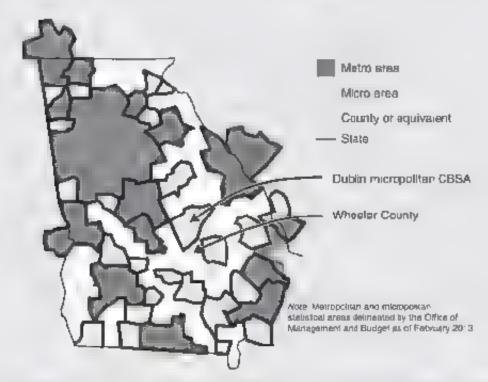


Figure B1.3 Metropolisan and micropolitan Core-Based Star stical Areas (CBSAs) for Georgia as defined by the US. Office of Management and Baseget, OMB in 20, 0 and impremented in 2013, points in S. Census Bareau.

examination of landscapes of production, that s, manufacturing, in Chapter 6. Not only has industrial employment undergone a drastic decline in absolute and relative numbers in recent decades, but the location of industrial land use within metropolitan areas has also manufested fundamental locational changes.

Part IV, which consists of Chapters 7 through 10, treats the social landscapes of the metropolitan area. Here the focus is on people and how and where they live. Chapter 7 presents traditional models of urban social space but also examines new factors that organize intraurban space—globalization and postmodernism. Chapter 8 focuses on urban housing, particularly the role of government, the debate over discrimination in the housing market,

housing "baght," neighborhood revitalization (gentrification), and urban sprawl. Chapter 9 relates the topics of residential segregation, race, and poverty, with careful attent on to the North American inner city. This chapter deals with all of the difficult and controversial issues of discrimination, we fare reform, and the "underclass." Chapter 10 analyzes the relationships among the issues of immigration, ethnicity, and urbanism, with special emphasis on the geographic patterns of Latino and Asian immigration. This chapter will be of utmost interest to those of you who live in a rapidly changing social and ethnic environment.

Part V introduces the political landscapes of metropolitan areas, with Chapter 11 presenting major issues of metropolatan governance and geographical and political fragmentation. Chapter 12 explains how urban planning works and how it can help create a better city. Those of you who wish to make a career in planning will find this chapter expectably informative.

The final section of the book Part VI first examines cause in the developed or industrial parts of the world other than the United States and Canada (Chapter 13) and in the less developed annindustrial areas of the world (Chapter 14). These are fascinating reviews of where and how people live such different lives in the world cities Finally, Chapter 15 details the geographic layout of cities in Latin America, Sub-Saharan Africa, South Asia, and Southeastern Asia.

WRAPPING UP

Urban geography today is the leading substantive area of geography and the one in which GiS tech-

nology, the leading growth segment in contemporary geography, is most often applied. As with other social and behavioral sciences, urban geography is a product of the past century, with most of its accomplishmen's occurring only within the past few decades. Urban geography has taken advantage of the opportunities of using multiple perspectives on how to conduct research to better understand our changing urban regions in the United States and Canada and around the world. Given the rich academic and pedagogic traditions built by multiple generations of geographers interested in the city, contemporary urban geographic education, training, and research offer challenging employment opportunities in private industry, government, planning, and edication

THE ORIGINS AND DEVELOPMENT OF CITIES

Between the rail and the river there is sparse cultivation and little villages of mad huts or reed-mat shelters are dotted here and there but westwards of the line is desert blank and unredeemed. Out of this waste rise the mounds which were Ur called by Arabs the highest of them all, the Ziggurat hill, "Tell of Maqayyar," the Mound of Pach

-C LEONARD WOOLLEY 1930, P. 17 (FIGURE 2.1)

Only in the most recent period of human history. has a significant proportion of people lived in cities. Yet cities have existed for as long as history itself. and, although they accommodated only a few people, they stored and aurtured most of the principal features of human civilization, organized religion, complex political systems, writing and learning, crafts and technology. Perhaps cities from so large inour namatives because the people who wrote about history and most of the subjects of history lived in cities. Ur. Athens, Xian, Mohenjo Daro, Timbuktu, Rome, Tenochtitián, Baghdad, Venice, Hangthow, London-by modern standards these cities were never of enormous size; only a few even surpassed a m., on inhabitants. But these and hundreds of other cities anchored human society and even became agents of societal change

WHAT ARE CITES?

As we discussed in Chapter 1, cities have been defined in various ways. Historically, cities were distinguished from other forms of settlement by their targer population size, their occupations, in that they included people not directly involved in agriculture,

and their position as centers of political, economic, and social power. The elite resided within the city. Cities were also generally marked by high densities, a crowding of people who functioned together as a social unit, which distinguished the city from the area surrounding it (Figure 2.2).

The well-known public intellectual, Lewis Mum ford, divided the city between its physical uspects, which included a "fixed site, the durable shelter, the permanent facilities for assembly, interchange, and storage" and its social aspects, in which the city functioned as "a geographic plexus, an economic organization, an institutional process, a theater of social action and an aesthetic symbol of collective unity" (Mumford, 1937, in LeGates and Stout, 2003). It was the social functions of the city—the fact of its central ity in various fields of human interaction—that was key to its existence

We might add that the city throughout its development has been marked by all forms of social functions, and that it has writnessed both stability and transformation in regard to the nature of these functions. The primary engine of change has been economic as either have developed as central points within various economic systems agrarian, merchant capitalist, industrial. But there have also been major



Figure 2.1 The Ziggurst of Ur one of the world's most ancient either



Figure 2.2. This photo of the ancience in at Arbeita highlights high density levels. One of the aspects of early cities was that they have a dense concentration of people

political changes too, as cities have centralized power at ever-expanding scales and have served as capitals for different types of political regimes. And there have been major changes in culture. In some situations, cities have thrived as centers of orthodoxy, as reaffirmations of the status quo. At other times, rities have served as agents of profound cultural change

Preconditions to Urban Formation

We know that cities are a relatively recent obenomenon, going back only about 6,000 years at the earliest and not globally common until 300 years ago. We also know that crites emerged in agricultural areas and, thus, that they developed only after agriculture had been introduced and adopted by the population (Box 2.1). The emergence of cities seems to have required something beyond more than just the adoption of agriculture, however, because many agricultural regions-Americalian cultures in southeast North America and in Amazonia, for example -did not develop cities

One fundamental precondition for the emergence of cities is the existence of a civil zation. The words cities and englication share the same Latin roof, and their connection is evident in the historical record-Although the definition of a civilization is even more problematic than the definition of a city, we might consider it to be a complex sociocultural organization. that contains formal institutions and that organizes.

BOX 2.1 Certies without Agriculture?

Most researchers assume that cities could only arise in places that already had an agricultural economy, but might it have worked the other way around? Such a view is hased largely on the evidence of two settlements that may have existed before agriculture has been introduced.

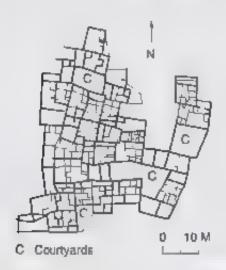


Figure B2.1 Diagram of Cata Heyük Source: Authors

Cata, Hövük (in modern-day Turkey) and Jericho (on the West Bank of Jordan) (Figure B2.1).

These places reproduced many of the attributes of cities. Jericho, for example, dates back to 8000 a.c. and appears to have been a densely developed settlement of people who had just turned to agriculture, its immense stone wall was made famous by the Biblichl story and song. Catal Hoyak appears to have had a large concentration of people, with dwedlings that people entered through the roof covering some 32 acres. The settlement dates back to 7500 a.c. That these settlements predate Sumerian cities is unquestioned, but there is a great deal of dispute as to whether these settlements can be called cities. They may have been overgrown agneulatral villages, composed principally of farmers, although the discoverer of Catal Höyük described. it as filled with a variety of workers and industries.

Using this information, Jane Jacobs (1969) went so far as to claim that Catal Höyük emerged in a pre-agricultural milieu-an idea spuried by most mainstream archaeologists Its basis for existence would have been trade in important commodities like obsidian. The food was mitially gathered from the immediate area or through trade Later, the city's very existence as a trading endepot would have spurred intensified agriculture.

strangers into a cohesive community under the control of a centralized authority. That civilization has become a culturally loaded term should not detract from the geed to distinguish the organization, order, and complexity that it represents from simpler forms of human association.

Certainly cities cannot exist independent of civilization. The ability to establish a fixed settlement of several hundreds or several thousands of people who did not produce their own food required the organization, order, and complexity associated with a civilization's attributes. Conversely, most civilizations in world history developed cities, although these were of varying magnitudes. For example, the records for ancient Egyptian civilization suggest that Egyptian cities were small and temporary Incontrast, the Aztec Empire at the time of Montezuma. spawned the enormous central city of Tenochtitlán Most cities became the focal point for their civilizations—the place where the highest aspects of that civilization might be found.

Ecology, Technology, and Power

In addition to the existence of a civilization, direcpreconditions need to be in place in order for cities to form, proper ecological settings, technology, and social power

- I Ecological settings. Cities required food, so they were located in relatively fertile areas. Most of the earliest cities seem to have developed in subtropical regions, where frust was not as great a problem. Moreover these early cities were often established on river banks, near a fixed source of water and where the soils were easily worked. Beyond that, cines benefited from proximity to other physical resources, natural transportation features. (such as a river or a barbor), some types of mineral resources (such as a useful metal), building materials, and often militarily defensive attributes (elevation, for example) The earliest cities in Egypt and China were Incated near the Nile and Yellow (Huang He) rivers, respectively, where fresh water and fertile soils were availlable.
- 2 Technology Certain agricultum; and nonagricultural. advances were necessary before cities could develop. Because cities required enough food to be able to support a population of nonagricultural specialists.

- they could not emerge antil agricultural production had increased sufficiently to provide sustained surpluses. In many cases, cities arose in areas where trigation was required. Also essential to the emergence of cuties were technological improvements related to the transportation and storage of food. Finally, crites themselves required substantial advances in building technology in order to accommodate the population, fortify the settlement, and build the speredibly earborate. ceremonial and monumental structures
- Social organization and power Compared to agricultural villages, early cities were large and complex. They surpassed the point where all individuals could know one another and so required some other type of social organization to the people together. In addition, cities required social coordination in order to (1) get food from the surrounding countryside either through coercion or a trading relationship: (2) construct and maintain the physical aspects of the city and of its hinterland, and (3) regulate the activities of people who lived within the city Social organization necessitated social power, which is defined as the degree to which one group was able to gain control over material and social resources and to marsho the activities of the pupulation living inside and outside the city.

Cities could not have come into being unless al. three of these preconditions were in place. Early cities also reflected these preconditions in that they served as places where agricultural surpluses were stored and distributed. Cities functioned economically as centers of extraction and redistribution, from countryside to granaries to the urban population. One of the main functions of this central authority was to extract, store, and redistribute the grain. It is no accident that the granames-storage areas for grain-were often found within the temples of early cities. The development of a writing system was critleal to the growth of crues because it was the best method whereby a society could keep track of its grain surplus. The first types of writing seem to have been primitive ledger sheets that tracked the receipt and distribution of grain, as well as ration and wage lists. First and foremost, cities functioned politically as seats of central power. Cities also functioned as centers of culture. This is where the main hallmarks of the culture were codified and later disseminated and where power was legitimized.

Theories of Urban Origins

It is important to note how these preconditions related to one another. Favorable environments and improved agricultura, technology, for example, probably increased populations, which is turn demanded even greater food production and may have necessitated a more complex social organization. The development of social power has at the heart of most of the theories of urban origins. Arab historian and geographer Ibn Khaldun stated that "dynasties and roya, authority are absolutely necessary for the building of catics and the planning of towns" (cated in Kostof, 1991, p. 33). Listing the preconditions for the emergence of cities, however, does not explain why eities developed. For decades scholars have searched for the reasons why cities appeared when and where they did. Early scholars sought a single reason for the emergence of cities. Because of the variety of urban origins, however, such monocausal explanations are too simple. Rather, it appears that cities emerged as a result of several interlinked factors. In his 1983 book An Introduction to Urban Historical Geography, Harold Carter summarizes four of the primary factors related to the emergence of towns and cities. These factors are agricultural surplus, religion, defensive needs, and trading requirements

Agricultural Surplus Over time, early farmers became better at producing enough food to feed themselves and their families, with a little extra left ever in a village environment, such an agricultural surplus would allow for a social surplus; that is, it freed up resources so that not every person had to farm. Within a small-scale society, this surplus might have been used to feed one or two people who were especially talented in creating certain objects, say, metal tooks, and who could then devote more time to this occupation and get quite good at it. This early specialization involved a simple division of labor between farmers and nonagricultural specialists. As society grew larger and more complex, the surplus may have been collected to free up even more people to pursue nonagricultural work. Additionally, the surplus might have been used so that farmers could allocate some of their time for other purposes.

There were several mechanisms whereby either a surplus was extracted directly or labor was used for a common purpose. Tithing involved voluntarily setting aside a fixed percentage of the harvest to be gathered collectively. Taxation was a system in which each farmer was compelled to pay a percentage of the harvest to the government. Corvée labor. was a practice in which the government compelled individuals to work for a period of time on some grand public works. The building of the Egyptian tombs, for instance, was a product of slave labor and convéc labor

A key question here is whether the existence of a surplus by itself necessitated the development of social power, According to early archaeologists such as Sir Leonard Woolley and V. Gordon Childe, producing and managing such a surplus required some organization, which in turn necessitated some form of social control. Central authority came about because it was needed to administer the surplus. This argument has been applied especially to the development of complicated irrigation systems, which required an elaborate organization of labor. But there were certainly civilizations and cides—such as early Sumerian society—that did not emerge as a result of extensive irrigation works. Moreover it is just as likely that any large-scale public works came after the development of organized society. There is no definitive argument that surplus alone required mechanisms of social control

Religion One of the common features of all early cities was the existence of a temple. In every case, the temple was far more prominent than any other element within the city. The great temple of Ur could be seen for railes over the flat Mesopotamian plain. Mohenjo Daro, in the Indus Valley in present-day Pakistan, included a religious citadel approximately 43 feet high (Figure 2 3) Even proto-cities, such as Cata. Hô vũ k in modern-day Turkey, show that much of the urban space was given over to religious purposes. Certainly, religion was important enough in all preurban societies, and religious structures so prominent in all early cities, that it made sense for religion to be unked with the development of social power.



Figure 2.3 This citated was located at the edge of the Indus-Valley city of Mohenjo Daro. This view shows the high western mound made up of a massive mud brick platform and brick houses of the Harappan period (2600-1900 R.C.). On topof the Harappan structures is a Buddhist period stupa made of mud bricks that dates to the first century a D

This relationship was bolstered by the fact that early elites held both political and spiritual authority, long and high priest were one and the same

Based on this history, it is easy to reconstruct a process by which a powerful priestly class emerged from the creation of agricultural surplus. Many of the early nonagricultural specialists were likely to be involved in producing tangible goods. But there were also a few especially charismatic individuals who explained the unknown tragedies-drought, flood, pests, disease—that were so much a part of the lives of the villagers. These individuals were given the status of specialists too, but with a twist: they were specialists in explaining and in codifying the necessary religious rituals that could help to appease the unknown. As these people became more powerful, they formed the prototype of a priestly class—a class of people concerned with explaining the supernatural and with mediating between the vil agers and supernatural forces. Over generations, this priestly class became distinct from the rest of the population-dictating rules of membership and how priestly status could be passed from parent to chad-and in some cases claiming divine origins. Most important, this group gained control over the surplus and were able to utilize it to serve their

ends—all with the full acceptance of the overal. population. This blending of religious and secular authority, a theocracy, was a halamark of early civilizations.

Czearly, a priestly class was vitally important, but there is no proof that its emergence provided the sole impetus for complex social organization, and that by itself it transformed early village somety into a concentrated, coordinated urban society

Defensive Needs Another feature of early cities was the presence of some type of fortification. Most ancient cities had walls, and all of them displayed evidence of defensive works, a soldier class, and armaments production. The Egyptian hierog yph for a town was a cross within a circle. The cross suggested a meeting place of sorts, perhaps in the formof a marketplace. The circle stood for the walls protecting this meeting place. Ironically, most ancient Egyptian cities did not have prominent walls, a point of distinction between these cities and the heavily fortified cities of ancient Sumeria (Figure 2.4)

Early cities clearly needed some form of defense because of their storehouses of grain, their position as the seat of central authority, and their concentration of people. They probably made inviting and



Figure 2.4 Ancient walls and fort heations in a Sumenan city. Walls were an essential aspect of the early Sumerian city. They kept out attackers and also restricted access to outside villagers. The wall of Uruk stretched abou, 6 miles in circumference.

visible targets. We might imagine that, in the face of attack, cities would open up their gates to the inhabitants of the immediate lunterland, offering them shelter and providing them with a spear or a sling. As any soldier knows, a successful defense requires a fremendous amount of coordination, and such coordination requires a clear chain of command and a division of labor. The most successful armies were akely those that could afford to train full time. supplemented by part-time soldiers when the demand was great. Much of the agricultural surplus would have been siphoned off to pay for the building of fortifications, the production of armaments, and the care and feeding of the soldiers. Once established, a military class would occupy a privileged position. and be able to exert a degree of social control over the inhabitants of the city and the hinterland

Trading Requirements The development of more complex cultures went hand in hand with the growth of a more complex economy There is a fair amount of evidence that there was a book trade in particular commodities before cities had fully emerged In the Near East, the trade seems to have been primarily in obsidian, a hard volcame glass useful as bits for tools, but other items were traded as wel. Many of the metal tools produced in Mesopotamia used copper, which must have come from the Anatolian plateau, a distance of more than 1,000 miles. Trade itself has been cited as a factor that sparked the emergence of marketplaces and that could have formed the basis of new cities. Preurhan traders who traveled between settlements would have enabled early populations to barter items that were not universally available. Their trading of specialized goods promoted greater specialization and economic intensification as people sought to produce food surpluses to buy other agricultural and nonagricultural products. This trade also enabled skilled, nonagricultural graftsmen to thrive. Cries would have formed around the central focal point of trade, the marketplace.

Trade was certainly a significant component of many early cities, and it can be considered the principal factor in the reawakening of urban life. during the Middle Ages (see the later section, "The New Trading Cities"). At the same time, there is less evidence that trade was the prime cause of development of the first cities. Marketplaces, while sometimes present, did not assume the grandeur and significance of temples and wads. The archaeological record does not indicate that merchants as a

group were accorded a privileged status (in contrast to their status in the medieval trading cities). In fact, a capitalist economy beneficial to free trade did not exist until much later. Economic exchange was carefully regulated and subordinated to the rules and rituals of theocratic life.

It is clear from the preceding discussion that no single cause can be isolated as the key factor in the emergence of cities. Certain favorable social and ecological factors combined in specific places to allow for the evolution of the world's earliest urban centers and the birth of civilization.

PATTERNS OF EARLY URBANIZATION

The history of early cines takes place over broad stretches of time and space. At one time, scholars be neved that cities developed in one place—early Mesopotamia—and from there diffused to all other places on earth. Although the earl est cities emerged in Mesopotamia, most scholars now propose that cities developed independently in several cultures and locations. And masmuch as agriculture was a key requirement for supporting cities, urban settlement would have occurred only in places where a farming economy was first in place. From these annual hearths, urbanization then diffused

Locations of Early Cities

The locations of early cities are indicated in Figure 2.5 (See Box 2.2, Uncovering Lost Cities) Most researchers agree that the first true cities appeared in Sumeria (in southern Mesopotamia, now present day frag) around 4750 a.c. Cities then appeared in Egypt around 3000 B.C., in the Indus-Vailey (in present-day Pakistan) about 2200 B.c. and in northern China, along the Huang He River, in 1500 B.C. There is also distinct evidence of independently developed cities in southern Mexico. about A.D. 1, in Peru by about A.D. 1000, and possibly independent urban centers emerging in West Africa. a bit later. All of these cities show evidence of a powerful ruling class with a theoretic orientation, literacy, advanced means of redistributing surplus, and substantial records of irrigation works (except for Mesoamerica, which relied on maize). Cities may have also developed independently in other places, but the evidence for this is less clear

It is important to point out that these early cities were all situated in regions of early agricultural production. Simply speaking, cities required a surplus and a sedentary population. Agriculture provided both of these elements. Successful agricultural production yielded a consistent samples that could be planned for at harvest time. Seed agriculture, such as that practiced in all of the early urban sites, compelled the population to remain in place, focused around a plot of land. Agricultural production also increased the overall density of the population. Early hunting and gathering populations sported population densities of less than one person per square mile. The introduction of farming practices boosted these densities considerably, especially within the fertile valleys of Mesopotamia, the Indus, and the Huang He

Diffusion of Urbanization Cities diffused from the early hearths into many areas, from Mesopotamia and Egypt, througaout the eastern Mediterranean, and along the coasts of North Africa and southers Europe: from the Indus Valley through central Asia. from the Huang He region east to northern China, and throughout Mesoamerica. Archaeological expeditions continue to expand what is known about the number and scale of early cities (Figure 2.5). They also suggest points of contact among established civilizations, often in the form of settlements than developed along trading routes. There is also greater evidence that some cultures, such as ancient Egypt an culture and the Anasazi cu ture in what is now the southwestern United States, created temporary cities that were occupied for a period of time and then ahandoned

What made cities possible, accessary, or attractive to cultures, thus causing cities to diffuse? Certainly, advances in agricultural technology would have played an important role in creating the necessary surpluses to support cities. Perhaps the most important of these advances was the transition from bronze to iron as a principal metal, beginning about 1200 a.c.

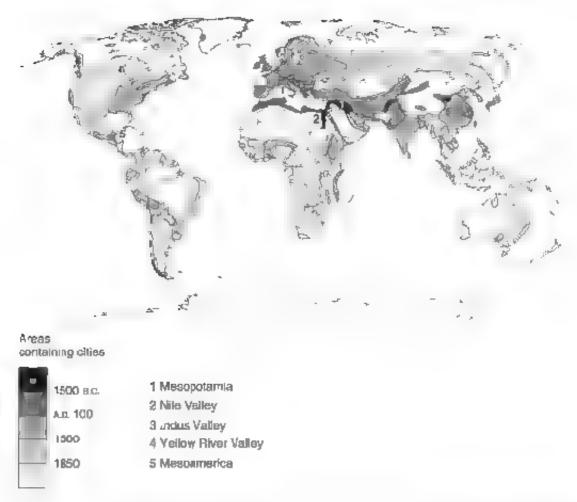


Figure 2.5 Urban diffusion. Cities diffused, slowly at first, from their original hearths. Diffusion. occurred along with advances in agricultural technology transportation improvements, and military conquest Source Authors.

Early agriculture was confined to river valleys with fight, easily worked alluvial (stream-deposited). soil. Iron enabled people to build better axes so they could clear more land and to produce stronger plowshares that enabled them to dig up firmer, more fertue fields. All of this increased the amount of atable and It is no accident that there was more urban growth in the first five centuries of the Iron Age than in the preceding fifteen centuries of the Bronze Age

Transportation improvements were also significant. Most cities emerged in places with good access to natural transportation routes such as rivers, but transportation advances allowed them

to function within a broader area. Here too, iron was important in that it formed better wheels and faster ships. Transportation advances broadened the territory within which trade could occur. Traders like the Phoenicians established cities that helped them to extend their trade, The city of Carthage. in present-day Tunisia, was established this way Minoan Crete likewise had a strong trading economy and established ports throughout Crete and on other Aggean islands. In addition, colonies were often established to accommodate surplus populations and to exploit new lands. In the case of the Greek colonies, found as far west as Sicily, these new settlements were autonomous

BOX 2.2 Technology and Urban Geography

UNCOVERING LOST CITIES

Excavating ancient cities used to literally involve a great deal of spude work, as archaeologists used their own insights and shovels to unearth seitlements buried beneath the ground. Now, the discovery of ancient cities has been arded immeasurably by orthong satellites and remote sensing images. These images can "see" a landscape using different light spectrums, many myssible to the naked eye. Moreover, archaeologists can also use ground-penetrating radar that shows structures buried several feet underneath the surface. This is especially useful in landscapes buried under sandy deserts, as is true of many ancient settlements.

The lost city of Ubac, buried underseath the sands of present-day Oman, was discovered with a combination

of painstaking research, intuition, and the utilization of remote sensing technology. I bar grew as a center for the extraction and distribution of frankmeense, an incense prepared from the sap of trees for medical and cosmette pur poses. Ubar became prominent in the second century A.D. While myths had grown around the city. Is existence was not known for certain. It was purportedly located in the midst of a vast sand desert and so was almost impossible to uncover in the trad troubl manner. But images from orbiting satellites (Figure B2.2) displayed features that were associated with the buried city, including ancient caravantracks, and from that point on this important ancient city was ancovered again.

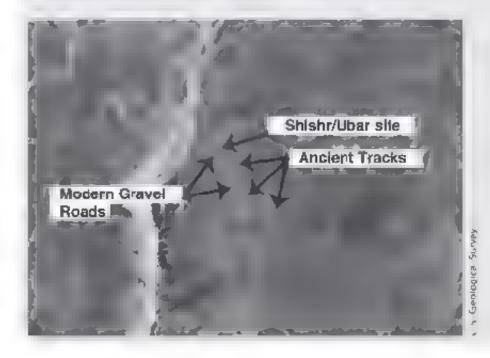


Figure B2.2 Landsat image of Ubar Arrows point out the incense trail leading to the Ubar site

Military conquest consolidated smaller states into larger ones, as ambitious rulers compelled their people to take over adjoining areas, As the size of states grew larger, the number of independent political entities shrank. By 2300 BE, all of the Sumerian city states had been merged into a single state. Elsewhere, similar consolidations were taking place. Grand civilizations emerged from smaller civilizations, as conquests expanded the area under central control. Within these newly conquered territones, ones were established as centers of extraction and control

URBAN EVOLUTION AND EARLY ECONOMIC IMPERATIVES: TRADITIONAL CITIES

Ancient cities varied enormously. The sizes of early cities ranged from about 2,000 to the million or so found in Xian (capital of Tang China), Rome, and Baghdad (as the center of the Islamic caliphate). The forms of cities were likewise varied. Some were more planned, whereas others appeared to emerge organically from a central focus. Similarly, some relied on heavy fortifications, but a few existed without walls. Yet cities also had a common function This is even more true of traditional cities—those that existed prior to the onset of mercantile capitalism of the European late Middle Ages. These traditional cities shared three key aspects.

- 1 They depended for their existence on the (generally forced) extraction of goods from a hosterland. The mechanism of this extraction might have been taxes or tribute, but it was by and large a compulsory relationship. Clearly trade existed, but it was less significant and did not form the economic basis of cities.
- 2. They were focused around an etite group, usually but not always religious. This group a establishment in the city demonstrated their central position and helped to elevate the city above the countryside. It was from this elife group that the city itself was established.
- 3. They were centers of cultural orthodoxy. Although they reflected the increased elaboration and sophistication of culture, politics, and economic relations, ancient cities. mostly promoted the status quo and resisted change They were at the centers of their civilizations, not at the margins of transformation. Cities were laid out spatially to promote this orthodoxy.

The Early City-States: Sumeria

As we have noted, the earliest identifiable cities were found in southern Mesopotamia, in Sumeria. Barlier settlements, like Jericho, are impressive and share many of the features of early cities, such as concentrated settlements and fortifications. But they stand isolated from any larger civilization and appear to have been populated with farmers. Along the valleys of the Tigrts and Euphrates rivers we see the emergence of some of the first true cities within a broader civilization. Agriculture had flourished for

a long time in this area, beginning in the mountains surrounding the river valley and then moving to the lowlands by approximately 5300 a.c. Beginning with Eridu in about 4750 a.c., by 3600 a.c. a number of cities were strung along the river banks. Uruk, Ur, Logash, and Al'Ubaid (Figure 2.6). The populations of these early centers were enormous when we consider that most agricultural villages contained maybe 100 people. These cities contained as many as 10,000 people by 3100 a.c. and 50,000 people by 2600 a.c.

Sumerian civilization was organized around a dozen or so cities, initially politically separate from one another but culturally sumilar. Each city extracted. a surplus from its hinterland, and simply could not exist without the vields of the fertile area surrounding. the city. Because of this, the size of early cities was limited by the surplus gathered from the hinterland, and in the earry urban period, agricultural surpluses. were quite low. Even assuming a surplus of 20 percent (quite generous for this period), a city of 10,000. people would require a funterland of 40 000 farmers, and a city of 50,000 would require a hinterland of 200,000 farmers. Only a very suphisticated pollacal system could manage a funterland of this size.

The relationship between city and horterland was codified in the political form of the city-state. City states are rare today, but they have been quite common throughout the history of cities. Each of the Samerian cities was encased within a politically sovereign state (another term for country). It was a simple arrangement whereby the city politically and in litarily controlled its surrounding countryside. The city itself was the tangible definition of central. authority. Directives and policies flowed out to the hinterland just as surplus grain flowed this the city. Later, these city states were consolidated into larger kingdoms. Other civilizations—most likely ancient Egypt and the Indus Valley-included several craes under one central authority.

The spatial arrangement of the early Sumenan city-states was best described by Gideon Staberg in his 1960 book, The Preindustrial City Past and Present He meant this model to apply to all nonindustrial cities and, indeed, certain elements recar-

Figure 2.6 Map showing location of early Sumerian cities. Early Sumerian cityes are stretched along the Tigris and Euphrates Rivers in what is now ling *Source*: Authors

in cities throughout time and space. The model is most completely exemplified in the Sumerian city (Figure 2.7)

(8,

Each Sumerian city was associated with a hinterland, that provided food to the city. The city itself was almost always surrounded by a wall. These were sometimes enormous. One of these early Samerian cities, Uruk, had an area of close to 2 square miles and a surrounding wall about 6 miles long with 900 to 950 circular, defensive towers. The wall was

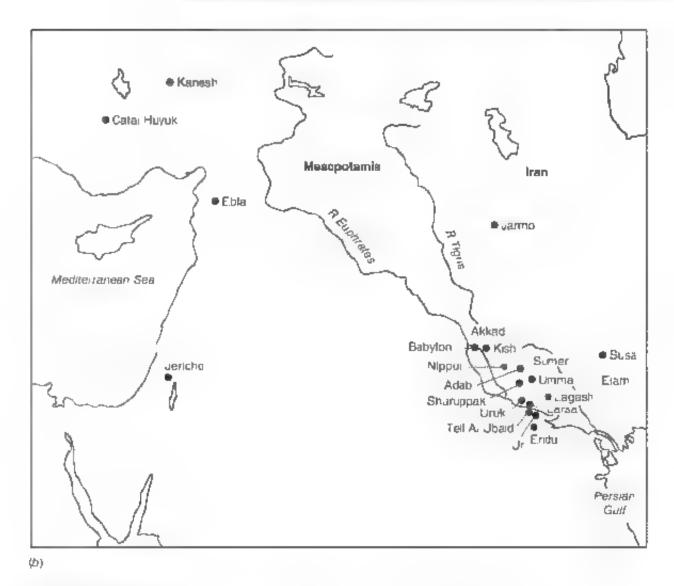


Figure 2.6 (Cantinued)

between 10 and 20 yards thick and was built of mudbrick. This obviously had defensive functions, but it also defined barriers between the more privileged urban dwellers and the less provileged rural folk-Access from the outside was aimited to times when the gates were open-

In the center of the city, an elite compound or iemenos was situated. Study of the very earliest cities. show this compound to be largely composed of a temple and supporting structures. The temple rose some 40 feet above the ground and would have presented a formidable profile to those far away. The temple contained the priestly class, scribes, and record keepers,

as well as granaries, schools, crafts-almost all nonagricultural aspects of society. One Sumenan temple employed more than 1,200 people

The increasing complexity of early society was reflected in the emergence of separate structures within this elite compound. The first structure to emerge in very early cities was a palace. The existence of a palace suggests that secular authority may have existed apart from religious authority, although the same person likely held both offices. Another somewhat grisly finding, reported by Woolley (1930), were the kingly graves at Ur, which included the royal remains along with 74 sperificed victims.

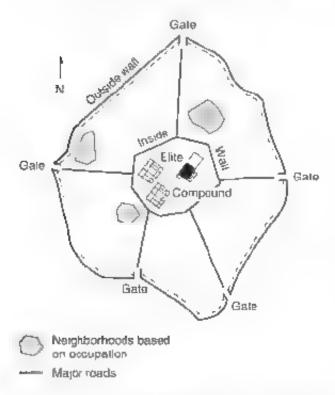


Figure 2.7 Model of a Sumerian city. Source: Authors.

Such sacrifices were common in many cultures and were probably entered into willingly, even gladly, as people looked forward to assisting their divine masters in the afterlife.

From the center of the city to the gates stretched the ma or roads of the city. Power and prestige were defined in terms of spatial access to the center, so these roads were often fined with the homes of the wealthier residents. In an organic city, such as the cities of ancient Sumeria, roads were not designed to fit in with some grand scheme or plan, but were developed in a more haphazard manner. Other ancient cities, like Mohenjo Daro in the Indus Valley, appear to have been developed as planned cities, with a regular street layout.

There was also a great deal of congestion in the ancient city. Tall buildings were impossible to build because everything was made of reeds or mud brick. This put space at a premium as population densities within the city exceeded 25,000 people per square mile. In comparison, most modern American cities have densities of around 5,000 people per square.

mile, and this is with the extra floor space afforded by multistory buildings and skyscrapers

Sanitation standards were poor If a deceat water supply existed, as it did in ancient Rome, it was usually found in the wealthy parts of the city. The streets themselves were poorly drained. In fact, excavations of a Sumerian city show that the street level was raised over time as the amount of human refuse piled up, and separate entrances had to be cut into buildings.

As urban society became more complex, nonreligious specialists movedout of the temples and came to surround the elite compound. Neighborhoods in these early cities were organized around occupations. There would be a few blocks with just brewers and another with just metalworkers. By and large, distance from the center was a reflection of that occupation's status. Low-prestige occupations, like tanners and butchers, would be found near the edge of the city walls. As the complexity of society grew, the urban centers became more varied. Internal walls were developed to cordon off the elite areas from the sections for commoners and to define separate occupational neighborhoods. Later cities also contained different ethnic groups, who were also segregated by walls.

Other Ancient Cities

Cities developed from at least five distinct hearths, and even in diffusion, we would expect changes and adaptations to different social and ecological circumstances. The Sumerian city described above is an exemplar because of its age and because it enjoys a more complete historical record. Cities arising from other ancient cultures are shrouded in great mystery, rendering it more difficult to get a sense of what they were like

Egypt Urban development in Egypt was possibly influenced by Sumerian civilization but it took a very different form. Primarily this was a result of the political structure. Whereas Samerian civilization consisted of autonomous city states, the entire Nile valley was controlled by a single pharaoh, so cities were subsamed to the Pharaoh's needs, primarily the need to construct a grand tomb. A city, complete with a government and servants, construction

crews, skilled craftsworkers, and artisans, would be developed until the pharaoh was buried. After this, the city would be abandoned. Recent discoveries of a bakery in Giza have suggested that ancient Egyptian cities, although temporary, sometimes grew to an enormous size for their time

Indus Valley The cities of the Indus Valley civihzation spanned a Texas-sized area in what is now a contempous border, and stradeling Pakistan and India. Archaeological excavations have revealed at least five major cities and a couple of dozen secondary settlements. The best known of these are Harappa, nearer the Himalayan foothi Is, and Mohenjo Daro, closer to the seas.

Each city was impressively sized at abour a square mile and probably contained 20,000 people. In contrast to the Sumerian cities, which were unplanned organic cities, the Indus cities were planned. They were carefully laid out with broad straight streets, suggesting that they had been designed from the outset. The consistency of urban elements across all of the major cities suggests substantial coordination and possible pulitical unification. Unlike the early Sumerians, the Indus civilization may have been a large kingdom. In addition, several elements from the Samerian cities are missing from the Induscities. There is little evidence of a wall containing the city; instead, some individual compounds within were walled. There is also no clear sign of a dominat. ing temple, each city contained a citadel that likely held ceremonial significance, although it is difficult to determine exactly what was significant. This citadel was also located to the west of the main urban concentration and was itself heavily walled. The social structure appears to have been less theoretic and more onented to artisans and trading; one archaeol agist has described the Indus cities as an "elaborate" middle-class society" (Edwards, 2000), The housing stock was varied, ranging from single-room tenements to impressive houses. Many of the houses had working bathrooms, where the waste would flush out into a main sewer line.

Our understanding of this civilization and the structure of Indus urban life is clouded by our

inability to decipher the language. We simply have no clue as to what the inscriptions say Even the names we give the cities are modern creations. There is no historical continuity. Unlike every other early civilization, the cities of the Indus Valley civilization were annihilated about 1750 n.c. by light-skinned Indo-Faropeans who had no use for their sophistical tion. There was no successor civilization.

Northern China The longest continuous civilization belongs to the Chinese, and the pidest evidence. of this civilization rests along the Huang He River, in what is called the Shang culture. Urban development here dates from before 1500 B.c. or so Bu. our knowledge of these cities is vague. From what we have ascertained, they housed a literate society, rigidly stratified with a divine ruler at the top supported by a warrior elite. In addition, there was a fair degree of occupational specialization. Although cities clearly existed, they were limited at number. The cities themselves were probably walled, with a palace compound in the center. But the archaeological evidence is scant. Later penods of Chinese civilizanon, especially the Han period beganning in 200 s.c., vield a rich harvest of art facts that show the flourish. ing and continuation of a grand imperial civilization.

Mesoamerican Cities The beginnings of civilization within the New World as a whole preceded substantial cities by several centuries. Instead, small ceremonial centers helped to anchor a more complex. society. The first large city emerged in Teotihuacán. before A D, 1 and began to grow rapidly probably ander the auspices of a strong central authority. By about A D. 500. Teothnacán was at the height of its power reagaing over a large area that focused on the Valley of Mexico but whose influence extended into the Yucatan pennisula. The size of Tentihuacan was formidable. It occupied an area of 8 square miles. and contained a population of perhaps as many as 200,000 people, making it the largest city in the New World, although far smaller than Rome and Xian (the capital of several Chinese dynasties).

What is most fascinating about Teotihuacán is its elaborate design, established according to a cosmological plan. René Millon has mapped the entire city, and in so doing has uncovered a grid oriented toward enormous temples, one of which, the Pyramid of the Sun, equals at its base the greatest Egyptian pyramid. The regularity of Teoribuacán began with the main street, the "Street of the Dead," which stretched from the Great Compound and the Temple of Quetzacoatl to another great pyramid, the Pyramid of the Moon (Figure 2.8). Every other major street, and even the river running through the city, was and out either parallel or perpendicular to this grand avenue.

The city contained the religious and military elite, of course but also a number of other nonagricultural workers. Teot.huacán's economic significance is underscored by several major markets, in which goods grown, mined, or manufactured throughous M ddle America would have been sold. Teothidacan also appears to have been organized along the lines of some 2,000 apartment compounds, each composed of several families that may have been linked occupationally or by kinship. Further, there are remains of what are clearly ethnic neighborhoods, with different housing types and art facts denoting distinct customs. The ethnic diversity in this city was echoed later in the Aztec capital of Terochotlan

Imperial Cities

Toward the end of the first millenn um B.C., the growth of large stable empires finally aboved for the

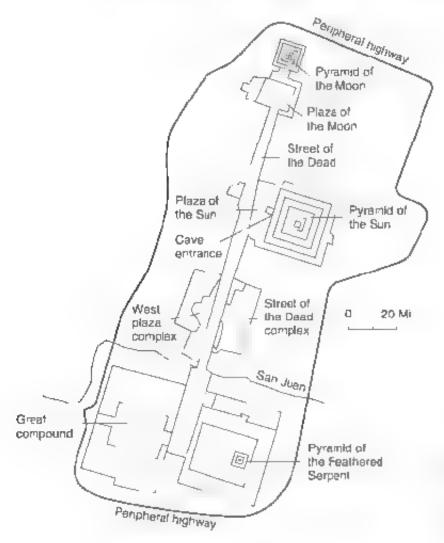


Figure 2.8 The ancient Mesoamerican city of Teutihuacán is an example of a planned city. The main "Street of the Dead" connected three great monuments and oriented each of the other streets. Source. Authors

development of truly huge cities of perhaps a million or more. Empires like the Roman Empire around the Mediterranean Sea, the Han and later Tang Empires in China, and the Islamic empire of the Middle East. and North Africa contained upward of 50 million people and were controlled for part of their tenure by a single dominating capital. In addition, such empires quickened the diffusion of urbanization, as cities were established throughout newly acquired lands in order to project impenal power and also as a base for colonists seeking new lands.

The scope of such cities is impressive, but these amperial cities were very similar to the older cities. that had preceded them: they were based on an extractive economy, they were symbols of cultural orthodoxy, and they served as the headquarters for the elite. Of course, cities changed over the span of several millennia. Time improved building materials and architectural techniques, transportanon networks, water supplies and plumbing, and

defensive fortifications. Improved agricultural efficiency and transportation advances meant that grains could come from faither afield. Social power expanded as small-scale polities merged into complex empires. The massive impenal cities looked nothing like Sumerian Ur, but they retained the same basic economic and cultura, functions (Box 2.3)

The size of all ancient cities was hindered by the amount of surplus that could be extracted. Over time cities became bigger for three reasons

l They gained a larger funterland and, bence, a larger area from which they could extract sumlus grain. Here, the important factor was the size of the state Empires could support larger cities that small kingdoms. Because empires were so large, for the first time. the sheet quantity of surplus became large enough to support a huge city. Not just crops were involved either, these vast haiterlands also made possible a large trade at luxury goods, metals, and often human slaves (Figure 2.9)

BOX 2.3 The Collective Alternative.

In contrast to the model of a supreme ruler who arrogated all power to himself there was also a countervailing testdency for some causa to be governed by a collective. Some evidence suggests that even the cities of ancient Sumeria were governed by an assembly in the earliest period, one that was gradually supplanted by a single ruler. City-states: m Greece offer the most famous example of cities that were governed by a group. The size of the enfranchised group was always small-maybe one-with of the overall population-but it still represented a more democrane approach to cities

The appearance of collective power corresponds to a dightly different urban form. In general, there does not appear to have been as ngid a division of land use within the city between clife and nonelite groups, or between the hinterland and the city itself. These cities often emerged m areas where the hinterland was small and where there was no need for large irrigation works. In addition, there was no clearly defined elife area. There was an acropelfs (temple area), an agora or common meeting place,

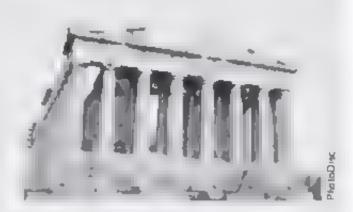


Figure B2.3 Atheman acropolis

and market areas (Figure B2.3) One other aspect of many collectively ruled cities is that there was a less parasiac relationship between city and hinterland. Hinterland residents were accorded full entirenship status, and more emphasis was placed on marketing surplus rather than on simply collecting taxes.

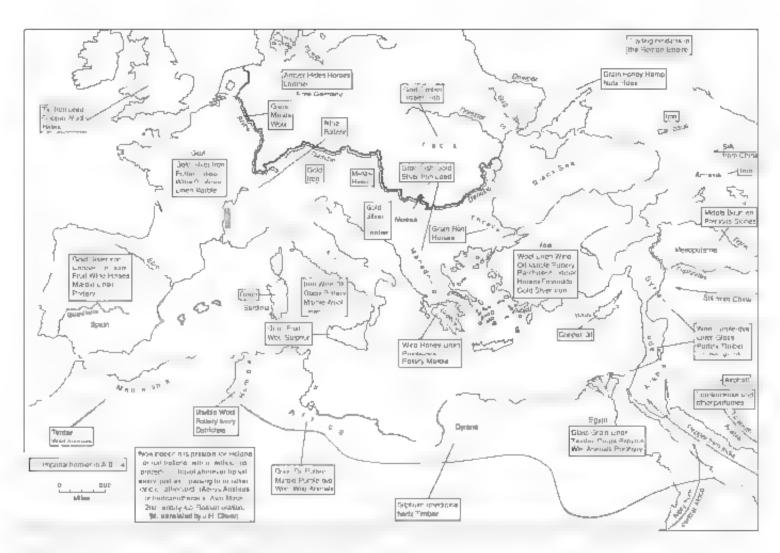


Figure 2.9 Map of Reman rade impension errors tike Rome beneficer from an enormous area from which her could guin not just lood, but making thems, administ, anemals, areads, and even slaves. Source: Authors.

- 2 Agricultural technology improved, which meant that new lands were opened up and existing lands could feed more people. Many of these technologies, like the moldboard plow allowed firm but fertile soils to be rewarked. Other changes, like double-cropping of rice. meant that farmers could increase yields on the same plot of land.
- The methods of transportation improved as ancient civilizations sought to take advantage of existing natural features or to create their own. For example, the building of the Grand Canal linking the Yangtze and Huang He rivers in Sang China was a milestone of hinterland expansion. It allowed the hungry cities in northern China to acquire rice grown in the south. Witer access: was crucial. Transport by land was five times as expensive as transport by river and twenty times as expensive as transport by sea-

Imperial Rome Rome has been called the Eternal City, and in some respects it can lay claim to retaining its status as a trac "world city" for an enormous length of time. It could also claim to be the single most influential city in history. Today, Rome is the capital of both Italy and of the Catholic Church. In the past Rome's impact on Europe had no equal in conquest, language, administration, religion, and orbanization. Because of the Roman Empire, what had primarily been a wilderness landscape was transformed into a tableau of city, town, and farms connected by the legendary Roman roads.

Rome created an elaborate urban system (Figure 2.10). Roman colonies were organized as a means of securing Roman territory. The first thing that Romans did when they conquered new territories was to establish cities. This practice reflected the Roman culture. Even rural Romans considered themselves to be urban people, and color sts (often loya. Roman egionnaires who were paid off in land) wanted to be assured that they could move to a settled community. Cities were important because they effectively projected Roman power and grandeur Cities also facilitated the collection of taxes and made t easier for government and military officials. as well as traders, to get around. By some estimates, the Roman Empire contained about 1,200 cities, of which several exceeded 100,000 inhabitants. In the west, which had not previously been urbanized (the eastern Mediterranean lands having enjoyed a long pre-Roman period of cavi (zation), even the smallest community was planned in accordance with the grid pattern. This pattern was of long duration, found in the Indus Valley many centuries prior and first postulated and consciously practiced by the Greek planner Hippodamus, The Romans, through sheer power and determination, managed to diffuse this pattern throughout the Mediterranean and Europe. The Roman grid began with two main streets constructed. at right angles, paralleled by the secondary streets.

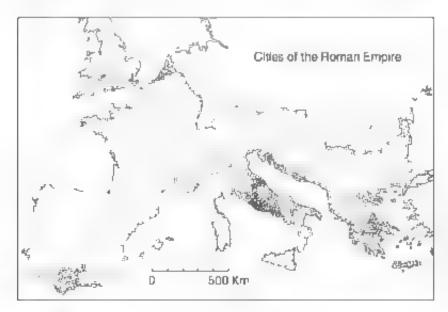


Figure 2.10 Map of Roman cities Roman cities were primarily military and adminestrative, and were used to control the vast reaches of the Empire. These cities use served as magnets for Latin-speaking. colonists and served to change the culture of the surrounding areas. Source: Authors

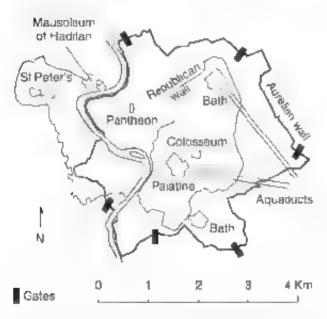


Figure 2.11 Map of ancient Rome At its height, Rome was the biggest city in the world with about I im hon people spread out over 8 square miles. Source: Authors.

A forum was then laid out at the crossing. Nearby were located a main temple, public baths, and theaters. A huge amphitheater, intended for gladinterial and other exhibitions, was established on the outskirts of the community. Often there was a defensive wail, but somet mes it was not considered necessary for those onies situated well behind Roman lines. Through the establishment of cities, Roman control was enforced and Roman culture transmitted. The city of Rome itself was a sight to behold (Figure 2.11). It was the largest city of its time, a period that fasted from 100 B.C. until its conquest in A.D. 455 (although it suffered many decades of decline beforehand). In A.D. 300, the city contained at least million people spread out over 8 square miles or more. This indicates a population density of about 200 people per acre at a time when aportments were limited to about half a dozen stories. Certainly we can see that incient Rome was seriously underhounded, meaning that the official city limits could not contain the entire population. The Romans built seven walls, of which the largest, built in A.D. 272, stretched 11.5 mules in circumference. Rome contained eight bridges, two circuses, two amphitheaters, three theaters, 28 libraries, and 290 storehouses. The political organization of the city was likewise complex. Rome was subdivided into 14 regions and about 265 formal neighborhoods.

Rome's Contribution to Urban Development Rome synthesized a number of innovative urban elements, including mass housing, the forum, public monuments and buildings, and a more complex social geography

Mass housing. Housing was divided between the clite single-family units, called domas, and the popular three to six story tenements known as insulae, where the bulk of the population lived. The smallest insulae contained five flats and maybe 30 or so people, larger insulae probably exceeded this number. In other cities, like the port city of Ostia, Romans built elaborate apartment complexes that contained between 40 and 100 apartments. Clearly, the Romans were well versed in developing urban housing for a growing population.

Roman forum. The forum was the central area for political activity and commerce. Eventually this was used with vast indoor halls, or basilica. The pressure on the forum grew so intense that, as the Roman population increased, the forum had to be repeatedly expanded.

Public monuments. Each conquering general would come back and dedicate a monument to a god. The Roman state religion was **polytheistic**, which means that Romans worshipped several gods, and the number of gods continued to expand. Monumentate great leaders and especially emperors also proliferated.

Public buildings. Members of the elite were expected to subsidize circuses and theaters for the population. The Romans favored baths, enormous facilities that contained cool, warm, and hot pools along with other facilities for the hygiene and rejuvenation of the Roman citizen

More complex social geography. Rome contained a vast array of peoples from all corners of the empire, who came to conduct business, to petition the government, or just to sightsee Indeed, we can imagine that an inhabitant of the empire would have considered it the fulfillment of a lifelong wish to make a visit to such a luminous place. The cultural diversity of Rome led one Greek observer to write that

he will not be far wrong who pronounces the city. of the Romans an epitome of the whole earth, since you may see every other city organized collectively and many also separately . the days of an entire year would not suffice for a man who should attempt to count all the cities which are found in that uranopolis of Rome, so numerous are they For indeed, some entire nations are settled there. (Quoted in Piana, 1927, p. 206).

The size, density, and complexity of Rome created a need for greater planning. Rome was not a planned city by any means, and it had grown so large so fast that an organized design was imposrible. Within the realm of the possible, though, there was a pressing need to regulate. The Romans responded to this need by categorizing their streets based on the volume of traffic and their urban function. One way streets were imposed. Height limits, which were about 100 feet by A.D. 300, were enforced although sometimes flouted. Well known was Rome's creation of an underground city, 264 miles of aqueduct that moved away much of the city's sewage and supplied many of the inhabitants with fresh water Despite its size, Rome was cleaner than most cities that came before or after. Of course, Rome is but one example of an imperial city Contemporary cities like Xian and subsequent cities like Constantinople, Baghdad, and Tenochutian were each at the centers of enormous empires that included several cities crowned by a hig, complex capital. Other hig cities into the modero era, including Pans, Loadon, Bening, Moscow, and Washington, D.C., would similarly rely on the

surplus gathered from their hinterlands to allow them. to grow and prosper

CITIES AS ENGINES OF ECONOMIC GROWTH: CAPITALISM, INDUSTRIALISM, AND URRANIZATION

A brief assessment of the world around a.t. 1000 would have suggested that human ty's future lay in the East. Civilization at the time was vested in grand. Eastern empires. The Byzantine Empire had become the successor to the fallen Roman Empire, but only in the eastern half of the Mediterranean. Its bejeweled capital was Constantinople, a city of some 500,000 that had become a kind of world emporium, with goods arriving from Europe and Asia. The Muslimreligion, founded by Muhammad in the early seventhcentury A.D. had propelled the growth of an Islamic empire, By A.D. 1000 this empire had frigmented into several competing caliphates, but Islamic culture in its several variations had by then stretched from South Asia through the Middle East, North Africa, and as far west as the Iberian Peninsule Capital. like Córdoba and Cairo had populations of about 500,000; Baghdad probably had a population of more than 1 million. This urban heritage would continue despite the conquests of the Seljuk Turks and the later. Crusades. China, the longest standing civilization, was in the midst of a golden age as the Tang dynasty gave way—after a short period of fragmentation—to the Song dynasty. This dynasty ruled two of the most impressive cities on the planet, Xian and Hangzhou.

In contrast, poor Western Europe had not recovered from the sacking of Rome and the collapse of the western half of the Roman Empire For more than five centuries a steady process of deurbanization

whereby the population living in cities and the number of cities declined precipiously-had converted a prosperous landscape into a seary wilderpess, overrun with bandits, warlords, and rude settlements (Box 2.4)

BOX 2.4 DEATH OF A CITY

In a precapitalist, impenal economy, the health and well-being of the cities depended on the empire remaining matet. This was especially true for the Roman Empire. Once the empire collapsed, manualing German tribes inherited much of the physical and human landscape, settling on estates, adopting the Latin language, and even becoming Christians. But they did not maintain the unity of the empire, rather dividing the spoils amongst themselves.

What remained were isolated populations living on far flung estates ruled by German tribesmen. Roman cities were turned into wasterands, and deurbanization began in earnest Rome itself is estimated to have lost 80 percent of its population in the first century after its collapse. By A.D. 1000, its population is estimated to have been at only 35,000. But at least Rome continued as the center of the Roman Cathoric Church, and it retained some urban functions. Other cities that depended on the Roman Empire for their economy declined even more precipitously.

Archaeological excavations of a city about 100 rates southeast of Rome. Maturnae, show what happened as the mantle of empire was stripped away. Mintamae once had 100,000 propie, by A.D. 500 at had no more than 15,000. The city itself was a disaster area. Whole blocks of houses stood vacant. Fires would begin and wipe out a number of houses, earthquakes destroyed the aqueducts and people would just dig up their own wells, the street pavement fell into the anderground sewers (Figure B2.4).

Individuals made do with what they could get Abandoned houses and bundings were raided for materials. The pupyrus scrolls in large libraries were used as a source of kindling, destroying certuries of knowledge, Peopse were buried in abandoned porticos or theaters. In other cities in Europe, whole populations could be found living within the colliseum, which was large enough to contain the may pupulation that remained. The few "cities" that

The New Trading Cities

The condition of Western Europe in A.D. 1000 made recovery seem laughable. Even more unbelievable was the prospect that this region would be the first to generate a new economy, one that would to dominate the world and engender a new type of city far different in kind from the cities that had preceded it



Figure B2.4 Minturnae runs.

remained were those focused ground Catholic esthedrais and monasteries. In this way some of the trappings of urbanife helped to preserve aspects of Roman civilization and also to pave the way toward a new urban revival.

A Capitalist Economy The impetus for renewed urbanization was the revival and primacy of a capitalist economy. Capitalism, as it was initially practiced by merchants, entailed the buying and selling of goods for profit (commercial capitalism). As practiced by artisans, capitalism entailed the creation of profit through the manufacture of finished

goods (industrial capitalism). Capitalism in both forms was clearly a major force in the ancient world and continued to be important around the globe But, with the possible exception of the Phoenicians, trade was dominated by the demands of a polaand structure that relied primarily on extraction. For example, in China, which had long enjoyed a strong trading economy, the merchant class was considered the lowest of the four traditional classes, whereas scholars were placed first. Throughout the world merchants as a group were generally given very little status or autonomy. The economy, as well as the government, was primarily in the hands of the religious elite, soldiers, or great land owners. Even in Rome, many goods came into the city from the far corners of the empire, but few went out

In Western Europe, trading had diminished so much that most people lived at self-sufficient estates. termed autarky. The feudal economy relied on the extraction of surplus from a peasant or serf class to the local ford or bishop, who demanded these as part of his hereditary right. Most of the surplus went to buy armor and to feed soldiers and horses. Often people starved to death because there was not enough food, much less an agricultural surplus that could be traded with someone else

When the trading economy revived, it occurred independently of a large political empire. The new cities that grew up around trade tended to be located either outside or on the margins of feudal estates and kingdoms. There was a shift from the old traditional hinterland, based on political control and sconomic obligation, to a commercial hinterland from which the city could buy and sell its goods. Unlike traditional cities, the new commercial cities could not rely on an agricultural hinterland from which to extract surplus. Rather they had to sustain themselves through buying and selling. Unlike tra-Jittona, hinterlands, commercial hinterlands were not under anyone's smeular control, although some powerful trading cities did later attempt to impose more exclusive relationships.

The Revival of Urbanization The towns and cities that grew up in Western Europe around this time were not very big. None came close to rivaling. the size and splendor of eastern imperial capitals or of ancient Rome. Moreover, they emerged in the midst of political fragmentation. Earlier, the eighth-century empire of Charlemagne had succeeded in uniting a large swath of western continental Europe, but it was unable to outlast Charlemagne himself. True consolidation of many of these lands would not occur until the sexteenth century and later

Despite this lack of centralizing authority, the population of Western Europe began to grow by A.D. 1000. Estimates suggest that Europe's population of 52 million grew to maybe 86 million between 1000 and 1350, a tiny increase by contemporary standards but a sharp contrast to the depopulation of the immediate post Roman ern. The exchange of goods, which had been much dimenshed but not completely extinguished, also began to accelerate. The cities that did exist began to increase the volume and variety of goods they imported and exported, and they enhanced the scope of their markets as well. In other places, a network of trading fairs, periodic markets that would attract vendors and buyers for a fixed period of time) emerged in the Champagne region of France and along the Rhine River The manufacturing sector of the economy was rejuvenated. In the 500 years following Rome's fall, Western Europe served mainly as a source of raw materials—wood, furs, wool-for empires further east. Now, greater attention began to be paid to finished products. This was principally in textiles, but also in pewter and iron goods

Finally, the number and size of cities began to expand. Although we know that the first three centuries following the turn of the millennium witnessed tremendous urban growth, the exact number of cities depends largely on definitions of what constitutes a city. Certainly a town was a legally defined entity in Medieval Europe, and many of these towns could also be considered small cities by the definitions given earlier. Norman Pounds (1990) estimates that about 6,000 new towns were established, at the peak, between 1250 and 1350, 75 to 200 new towns were established every decade just in central Europe A small number of these were rebuilt from existing towns that had not completely collapsed during the

Dark Ages. Some arose out of the needs of defense. Some developed around monasteries and castles. A large number, however, appear to have originated as settlements of traders and craftsmen, often with permission of the neighborhood lord.

The cities of Europe—new and newly mygorated—were not large by the standards of the time. By A.D. 250 or so, only a half dozen exceeded 50,000. In imperial China, such cities would have been smaller than provincial capitals. In A.D. 1000, when urban growth was first beginning, the only European city larger than 20,000 or so was probably Roms. The map of cities in Medieval Europe (Figure 2.12) shows where these cities were located. Many of the largest cities—Constantinople, Seville, Cordoba. Granada—were attached to empires, so people probably relied on the traditional means of sustenance. There were also several smaller cities in the interior regions of present-day France and Germany. Beyond these locations, the two areas of great est urbanization were northern Italy and northwest Europe. These two areas were the fulcrums of a new capitalist trading economy that was principally responsible for urban revival.

Northern Italy Foremost among the new capitalist cities were the towns of northern Italy, most famously Venice, Genoa, Milan, and Florence, but



Figure 2.12 Cities in Medieval Furtipe. This map shows where all estand rowns were incuted in the later Middle Ages. The largest caues were stull attached to empires but closters of cities in northern Italy and northwest Europe attest to the revival of urbanism and the importance of trade. Source: Authors

including several others. The cities are all now part of the country of Italy, but at the time they were independent city-states, jealous of their prerogatives. Although each city controlled a substantial amount of territory. Venice even carved out a sea-faring empire—the territory was not the base of their economy. Rather, the economy was based on the activities of merchants and artisans. Merchants from these cities were involved in international trading across the Mediterranean. Many relied on interme-Lary groups to procure goods from the Far East A variety of luxury and bulk commodities were traded. Venetian merchants, for example, traded timber, slaves, and iron from Wwestern and interior Europe in exchange for spices, silks, and porcelain from the Far East.

The success of these Italian cities was evident by their growing populations. By 1363 Ventce had schieved a population of about 80,000, and Florence. Milan, and Genoa were not too far behind. (These population figures occurred after the Black Death of 1348-1350, so they represent a substantial decline). These cities also became spectacularly wealthy. The success of these cities was also reflected in their growing political independence. They were initially under the control of a larger jurisdiction, but by 1300. they were completely sovereign. They were able to conduct an aggressive foreign policy and to estabfish elaborate defenses. Some cities even employed mercenaries to do their fighting for them. These cities became major political powerbrokers on the European stage. The Venetran doge—a duke elected from the ranks of old merchant families-was one of the most powerful men in Europe. Despite their growing size and the political clout of these cities, the economic mission of the city was always given precedence.

Northern Europe In the north, along the Baltic and the North seas, trade began with a group of merchants based in small towns (Figure 2.13). Unlike the Italian traders to the south, merchants from these towns traded mainly in bulk commodities, salt from the North Sea coast, wool from England, flax from Belgium, herring from Norway, furs from the Russian interior, wine and grains from France, and oats and rye from German lands. These merchants were somewhat independent of the feudal system. but they relied on it for many of their products. From these towns was formed the Hanseatic League. This was a series of towns, mostly German speaking, that established special trading relationships with one another At one time the league probably included about 200 such towns. Importantly, the league was not a pontical union. These towns were geographically separated from one another and there was no unifying capital, but they agreed among themselves on a set of principles and standards.

Most Hansa towns were quite small, having fewer than 5,000 people. Later they would be overshad. owed by some of the emerging trading and clothmaking cities to their west. These estica-Bruges (Brugge), Ghent, leper-were heavily involved in woosen textues. They would later be joined by cities like Amsterdam that used their position at the intersection of river and sea to become great trading cenærs and that were poised to take advantage of the shift. in the main economy from the Mediterranean and the Baltic to the At autic and beyond

Structure and Form of the Trading Cities Changes in economic emphasis altered the social structure and form of these new trading cities, as discussed next

Political and economic structure. The notion of citizenship came to be highly regarded, reflecting the separation of these cities from the feudal order that surrounded them. It was considered best to be a citizen of an independent or chartered city. The cities also contained many noncitizens-visitors from other cities and kingdoms, rural subjects, and even minority populations.

The social order in the city was headed by the merchant class. This group did not possess much real estate; rather they owned movable goods, merchandise, cargo ships, cash. In Florence around 1400, about 60 percent of the wealth was in the form of movable property, illustrating the tremendous shift away from the feudal and classical economy based mainly on land ownership. The power of the

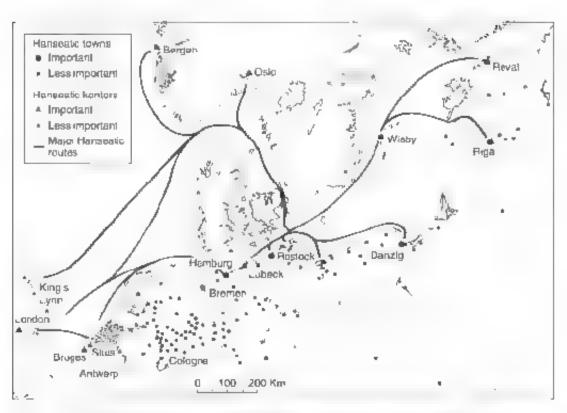


Figure 2.13 Hanseute towns and trade. In the the half as merchan's to the south. Hanseute merchants were more interested in trading holk commodities, salt, would fix for fish and cass. Source: Authors.

merchant class was politically recognized, and they were favored over the feudal aristocracy. Some cities passed laws meant to limit the intrusion of nobitity in local affairs. It was not a democratic system in the modern sense. Some cities created a new nobility of merchants that restricted entrance to merchants who came later, even the most successful ones. Higher councils and offices in Venice, for example, were reserved for the original families of the early merchant classes.

There was also an increased emphasis on production. Many wealthy merchants established their own workshops. They would often hire skilled craftsmen or artisans to produce various finished products, from cloth to metal products.

Merchants and artisans were both involved in the quintessential institution of this era; the guild Guilds were occupational groupings, almost like a combination of a company and labor union today. Within a city, a guild would bring together similar workshops with a common interest in a particular craft Initially, a distinction was made between merchant guilds and craft guilds, but the line between them was not sharply drawn. The guilds became a politically powerful and, over time, economically conservative force. The largest guilds often acted as their own governments within the city. Florence's woolen guild, for example, had its own pouce force, magistrates, and juils.

Spatial form. The changes in social structure were reflected in the changing form of the new cities (Figure 2.14). To begin with, the wall was still important. Most cities were jealous of privileges and worried about being sacked by a military invasion of by hungry peasants trying to enter. In many cities, more than 60 percent of the budget was spent on wall maintenance. Also, the walls restricted the growth of cities, occasionally leading to construction of new waits. Some growing and prosperous cities, like

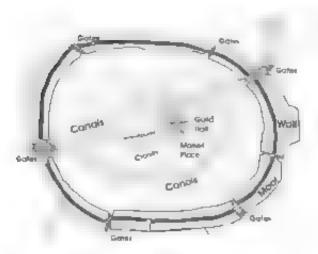


Figure 2.14 Map of Bruges (Brugge) as a model of a medieval trading city. Source: Authors.

Bruges, had a moat as well as a wall. For growing cities especially, suburban development occurred outs: de the wall, but the wall continued to define the city until the late eighteenth century.

The new city was centered around a marketp ace The trading plaza became the focus of activity for these new cities. Major cities had several marketplaces—an often tregularly shaped central square, a spot near the town gates, even at a widening of the streets. In addition, there were spots near the marketplace where other sorts of business could be transacted. By the time Amsterdam had developed in the mid-1600s, the dam or main marketplace was a wonder with goods and merchants from all corners of the world. Nearby, a statue of Atlas lifted up his globe

The focus of activity was very much tied up with the ports and waterways. Medieval cities owned huge cranes, powered by men on treadmyls, that were built to load and unload goods from ships. Enormous warehouses were built nearby to store the goods Harbors were dredged to allow for more and larger ships. Venice, built on islands, constructed a network of canals and bridges, including the 2 mile long, 80-yard wide Grand Canal. This was big enough to let a 200-ton ship through. Other cities, like Bruges and Amsterdam, were also built around canal systems.

There was a further reflection of change in the construction of guild halls. These were often found around the central marketplace. Sometimes these were built by individual guilds, as was the case in Venice; other times, the guilds would join to build a common half. These guild halfs were an essential element in the landscape of power, reflecting the guild influence in city government

A more complex social geography also evolved at this time, leading to greater separation of different groups. Sometimes this separation was based on occupation or guild associations. Venice had distinct areas for linens, silks, and woolens. Separation also occurred on the basis of "nations," as different ethnic groups were called (Box 2.5). Venice was separated into zones where Greeks, Slavs, Albamans, and natives of other Italian city states lived. Separation on the basis of family groupings also became more common as prosperous families built huge compounds within the cities and acted as if these places were sovereign. This sometimes prompted feuds and even open warfare between different sections of the city (Figure 2.15)

The street system of the Medieval trading city reflected its division into several districts. Most streets were not designed for access, instead winding around the neighborhood core. Streets were set upfor commerce and production, and street frontage was valuable land Buildings were often placed right on the street ame, and the higher stones would protrude ever further into the street such that it was possible for someone on the third story to lean over and kiss someone neross the street

The cities that developed in the mid- to late Middle Ages were entirely different from the cities that had existed before. At the same time, they came to change the nature of the European economy as well-Specialization grew to be far more significant to the agricultura, lands as land owners chose to grow crops. that would bring them the most income. Serfdom. which had developed in an economy of self-sufficient. manors, was less useful in this newly specialized economy. The nature of laws altered as the crues spearheaded a shift to a secular law that was more independent of the Church, and to the territorial principle in law, in which one's place of residence determined which laws to obey

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BOX 2.5 THE FIRST GHETTOS

In the contemporary United States, a ghelito generally refers to a poor neighborhood inhabited primarily by members of a minority group. The term was first appned to a Jewish neighborhood in Venice, and likely comes from the Italian for little town, barghetta, or foundry, gretta. During the fourteenth and lifteenth centimes, Jews were allowed into Venice as moneylenders, functions proscribed to Christians. In 1516 the Veneban government decreed that a permanent Jewish quarter be established. A plaza area was enclosed by buildings and winds, which in turn were surrounded by a carcular canal. Access was strictly controlled through two gates, and residents were not allowed outside the ghelto after dark. In addition, residents were forced to

pay the salaries of the guards that kept them confined. Escaping from the ghetto was severely purished by out-side authorities and was also frowned on by most ghetto residents. Formal conversion to Christianity was the only legal method of escape (Figure B2.5).

The ghetto concept diffused to a number of cities—Frankfurt, Prague, Trieste, and Rome—and the prohibition of Jews from certain areas was wide v applied across Europe Long after the traditional European ghetios had vanished, the Nazis revived the concept with a hideous twist, using the ghetto as a waiting area before deporting Jews to the death camps.



Figure B2.5 Engance to the Venetian gheito

The growth of states in Europe eventually put an end to the primacy of autonomous or independent trading cities. The new states that came of age beginning in the sixteenth century enjoyed advantages of size and unified markets, and several cities continued to fur if more traditional roles, as centers of political or religious power. But the capitalist rationale that had guided the early trading cities carried over into the economies of many European states and

became a force in the development of a single world economy.

Industrial Cities

The commercial cities abetted a new kind of economy and were clearly in the vanguard of change to a more capitalistic system throughout Europe Still, these cities did not get very large. Even the largest of them were limited in size and could not compare



Figure 2.15 Asmedi in Bologna, Italy. Great and rivalrous families dominated many of the early trading cities. and they often constructed monuments to demonstrate their importance

to imperial cities in other parts of the world. The political movement of some countries toward consolidated kingdoms-England and France among them-and more far flung trading networks had increased the size of some cases in the early modern era. London is estimated to have had a population of about 200 000 in 1600, but that included several suburban areas that may have been predominantly rural. The population within the city proper was iess than 100,000, as was also true of Puris, Aresterdam, and other major cities. The emergence of consolidated longdoms may have had a greater influence in the creation of planned bastide cities Box 2.6)

For society to urbanize extensively, and for some cities to get really large without requiring an enormous empire, meant that the economic basis of cities had to shift. The traditional cities had relied principally on extraction. The Medieval capitalist cities, despite a thriving handicraft industry, st.ll relied primanly on the exchange of mostly rural goods. Cines initially accommodated the religious and political elite, along with the supporting population, and then a merchant and artisan class. However, these were not occupations that required huge numbers of people. Despite impressive gains in manufacturing during the Medieval period, there was still no way a group of artisans, no matter how well organized, could create the kind of supply and demand that was needed to sustain a large city. Most concerns were run out of a 6- by 20-foot from office that would subcontract work out to various specialists. Later, much of the textile production moved out of the cities into rural areas.

Industrial Revolution What was required for cities to really take off was the creation of an entirely different economy, one based on the production and exchange of urban products that could sustain a large urban workforce. The creation of this new economy was bound up with the Industrial Revolution, a very loose term for a set of complementary processes.

- Changes in the power supply, largely through the introduction of the coal burning steam engine.
- Technical improvements in machinery, through such nventions as the mechanical power loom and an iron pudding process to extract ron from iron ore: and
- The shift from a production system based around small. workshops to a factory system that coordinated the activities of dozens and then hundreds of workers. Laborers could work under one roof, using machinery connected by a complicated series of belts to one steam.

As these various processes developed, true mass production became possible. But other anchary developments had to take place beforehand. For one thing, the necessary capital needed to be available to take advantage of these technologies. This required

BOX 2.6 Designing Spaces: Bastide Cities and the Grand Manner

The early Medieval trading cities were largely organic in design, signifying their somewhat haphazard and disorganized economic development. Many were also separated from the structures and strictures of the leudal country. aide and were in search of ever greater freedoms from a fragmented feudal nobility. Later on, diaring the Renaissance and early modern penods, the ideals of urban design and planning took hold. This occurred alongside changing relationships between city and countryside, and between muricipal and noble power. The consolidation of power under the authority of a prince or other grand nobleman signified the emergence of strong states and the decline of independent cities. In such an environment, cities developed under different conditions. Although they continued as centers of capitainst activity, cities existed now as places. within a larger state. The ruler of that state could choose either to plant new cities on his domains, in the hopes of better securing the territory and of increasing his revenue. stream, or to add a new addition to an existing city.

There is no single model for the designed either, but there are a few principles. Many eithes were constructed with fortifications, or business in mind. These fortifications would often take the form of a segular geometric shape with towers and out at regular intervals and gates allowing entrance into the city itself. The streets within the bastide city were likewise regularly placed, intended to connect logically to each other, to the central market square, and to the town gates. The placement and pattern of streets were also intended to facilitate the movement of armaments and men to the city defenses. Building took place after the layout had been unposed, creating a more orderly landscape. Some of these cities were more geometrically curious than truly practical, as this picture of Palmanova, developed by Venetians in 1593, bears out (Figure B2 6).

Later, the expansion of even larger more powerful kingdoms combined with baroque notions of design to form the ideal of the *Grand Manner*, a vision of city design. Here, the city was conceived of in its entirety, laid out ahead of time by an urban visionary as an assemblage of grand monuments, key buildings, terrain features, and parkland linked by a network of avenues and nighthness. Street landscaping, building architecture and cohesion dramatic effects—all came together to produce a grand (and contrived) synthesis. Several important calles were laid out in this way, especially capitals that are now centers of substantial conditives. Washington, D.C. in an example where the precepts of the Grand Manner were unencumbered by previous bastory. Planned by

some very wealthy merchants who were willing to invest in steam engines, machines, and factories. The increase in mantime trade to include much of Asia, Africa, and the Americas, as well as profits from the slave trade, greatly enriched many European merchants but especially those in England, whose exports increased more than five times between 1700. and 1800 Secondly, agriculture had to advance to the point where it could feed all of the people who were working in the factories. Earlier agricultural productivity was, of course, quite low and could only allow for a small surplus. During the seventeenth and eighteenth centuries, greater agricultural efficiency (1) increased the surplus of farm products, allowing fewer farmers to support more people, (2) increased the demand for manufactured goods among the wealthier farm families; and (3) created a surplus labor force that was no longer needed in

agriculture, but would now work in the urban factories of the Industrial Revolution. England was clearly at the center of these changes. London became the first truly global city by placing itself within the new global economy English colonialism in North America, the Caribbean, South Asia, and later Africa and China helped to further fatten the walkets of many of its merchants. These colonies would later provide many of the raw materials for industrial production. England's funterland was no longer confined to a portion of the world, it effectively became a global hinterland.

England had also been in the forefront of changes in the agricultural sector. Through better seed selection, animal breeding, forage crops, field rotations, and the shift toward fewer and larger farms, agricultural output during the eighteenth century increased far faster than the population, freeing more laborers



Figure B2.6 Aenal view of Palmanova.

Pierre-Charles L'Enfan: in 1791, for the first 100 years of its existence the city's design outstapped the population. Charles Dickens wrote in 542 thm Washington was filled with "spacious avenues that begin in nothing and lead

nowhere; streets a mile long that only want houses, roads, and inhabitants; public buildings that need on y a public to be complete (quoted in Mamford, 190) g 407)

to work in factories. Moreover, England enjoyed tremendous coal reserves (Figure 2.16). This was particularly important because coal power was used to run many of the new steam engines as well as the new instruments of transportation such as railroads and steamships.

The processes of the Industrial Revolution accelerated urbanization. Industrialization meant that arge numbers of people could work in factories, producing goods that would be consumed by city and country dwellers alike. Further advances in transportation based on coal power, such as the milroad and the steamship further extended the reach of industrial cities. Cities could get their food from a wider and wider area. London was able to get its grains from anywhere in the world; rice from ndia and wheat and beef from the United States and Canada. The sorts of raw materials needed for industrial goods could also be acquired from almost anywhere in the world. Products from North-America, South America, and Asia found their way into the new factories; the American South had become the major supplier of cotton by the mid-nineteenth century, for example. Most of these changes resulted from people in rural areas moving to urban areas. Urbanization in nineteenth-century Europe was tremendous. While the population of Europe doubled in the 1800s, the urban population grew six times over England was 20 percent urban in 1800, 40 percent in 1850, and more than 60 percent in 1890; it was the first urban country. By contrast, northern Italy in the heyday of the trading city was never more than about 20 percent urbanized.

Industrialization meant that many cases grew rapidly. The figures on population growth among British cities show these effects: Manchester and Loverpool quadrupled in size. The largest cities finally were able to rival, and then exceed, the largest imperial cities. By 1800, London had a population of about 1 million, Paris about 550,000. By 1850. London was nearly 2.5 million and Paris 1 million. And by 1900, eight cities were larger than 1 million, headed by London at 6.5 million.

The Changing Logic of City Location Together, these events affected the logic of city location:

- The factory system required a concentration of labor in one place. The industrial system favored concentrated settlement in a few places as mass production in factories replaced small-scale production in workshops scaltered in severa, locations.
- Steam engines required large amounts of coal, which
 was normally the bulknest ingredient in the production
 process and therefore expensive to transport. Many of
 the new industrial cities sprang up around the coalfields,
 and increased their populations tremendously.
- Some cities, notably London, benefited by being at the center of industrial trade. Many smaller industries spun off by the industrial Revolution also concentrated there.

Beyond the economic aspects, industrialization also changed the character of cities and their spatial arrangements. The popular image of nineicenthcentury industrial cities is not a pretty one. Most images come from povels by Dickens and from various social commentators of that time. We think of black soot casting a pall over the city, of vast gaps between the rich and the poor, of mansions on the hills overlooking the city and the teeming slums near the factory gates. Friedrich Engels wrote of Manchester that "there is no town in the world where the distance between the rich and poor is so great, or the barrier between them so difficult to be crossed". and spoke of "the disgusting condition of that part of the town in which the factory workers hved." In response to these observations, a middle-class gentleman remarked, "and yet there is a great deal of money made here. Good morning, sir" (quoted in Briggs 1970, 106, 114).

They were both correct. Engels witnessed at urban environment that flaunted overwhelming disparities, in which the rich made more money while the poor suffered. For rich and poor alike, Manchester was quite unhealthy. Like other industrial cities, it was a haven for disease. Contagious diseases like smallpox spread easily, bad hygiene led to typhus (spread by lice), and bad water supplies led to severe epidemics of choiera. In addition, there were inordinate numbers of industrial accidents. malnutrition among underfed workers, and maladies such as rickets from lack of sunlight. Until 1880. mortality rates were 50 percent higher in English cities than in the countryside A Report on the Sunttury Condition of the Labouring Population of Great Britain, published in 1842, showed that the average age of death among Manchester's working class was a mere 17 years, less than half that of the rural town of Rutland Even the professional classes suffered, dying at the age of 38 on average, as opposed to 52 in rural areas

Elements of the Industrial City The major new elements of the Industrial city were factories, rattroads, and slums (Figure 2.17):

- The factories always took the best sites. In many cases, the founding of the factories led to the growth of the cities, so they were central to urban form.
 Of course, there were no pollution controls. The air was dirty, and the rivers were used for dramage and sewage.
- The radroads were the factories' connection to the main ports. In England these were London and Liverpool. Radroads were like factories on wheels and spread the pollution into all parts of the city and into the countryside.
- The slums were the last element. Mass production associated with the factory system required mass housing for the factory workers who worked there. Workers no longer lived in the same place they worked, as they once did over the old workshops, but still needed to be close by. Housing also had to be constructed in a hurry, often by the factory owner, and was built on the cheap. Long rows of tenements were rapidly put up, often back to back, so as to minimize space (and ventilation).

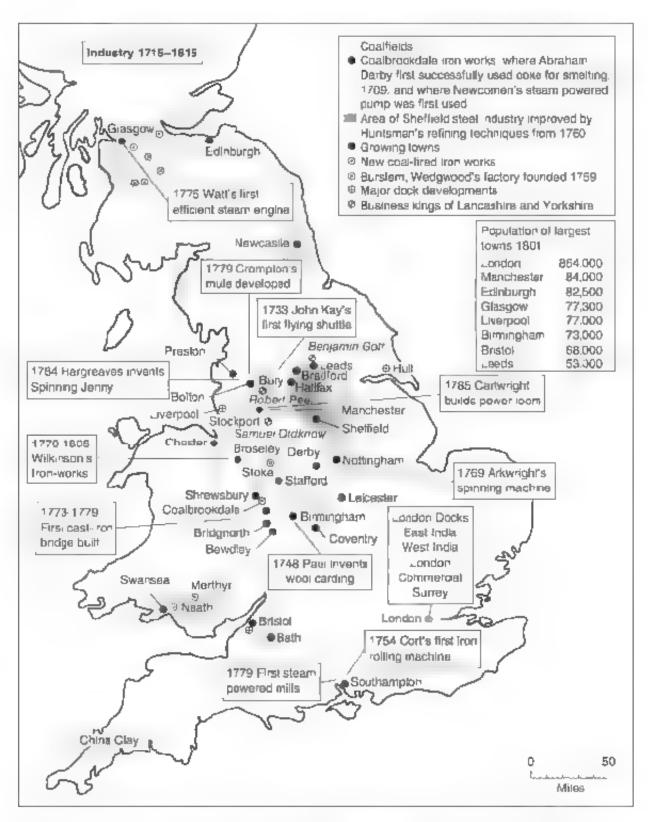


Figure 2.16 Map of coal deposits to Britain with manufacturing cities overlaid. Britain was particularly wellsupposed with coal and built most of its factories right next to the coal names. Name e. Authors:

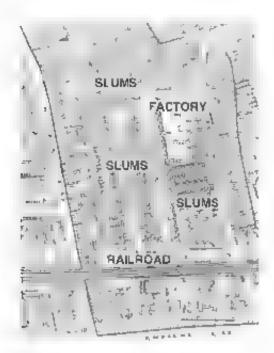


Figure 2.17 Map of Camberwell that illustrates elements of an industrial city Source: Authors

The industrial city thrived on production, and it was able to employ large numbers of people in factones. Here, the spatial separation between social classes accelerated. The wealthy increasingly had the means to leave many of the urban problems behind (at hough as Manchester life expectancies suggest, they shared somewhat in the urban miseries in the early years). The workers found employment but at an enormous cost to themselves and their families. They lived in the worst sections of the city. In bigger

cities like London, an additional class composed of clerks, storekeepers, and bureaucrats also expanded, often settling within separate areas of the city. In this manner the social segregation of the modern-day city hegan to take shape. Changes in transportation technology and an expansion in the physical size of the city would further separate social classes.

WRAPPING UP

As our world fills up with more and more cities, it is easy to forget that urban centers are a relatively recent phenomenon. In order for cities to emerge, several preconditions had to be in place. These included a sufficient agricultural surplus, a technology necessary to build and sustain cities, and the social power needed to marshal the resources of the population and to gather and redistribute the surplus. Exactly how cities came about is open to question. We do know that cities emerged independently in a number of hearths around the world. These early cities varied widely, but they shared a dependence on an extraction economy. Imperial cities, like ancient Rome, built on these early foundations and were able to grow as a result of control over a large area. It was only with the emergence of a capitalist economy between A.D. 1000 and 1200 that the basis for urbandevelopment changed, and cit ex became engines of economic growth, Industrialization allowed cities to grow even more to the point where cities became several times larger than was ever before possible, and they contain a greater percentage of people

Part II Metropolitan Systems



THE EVOLUTION OF THE AMERICAN URBAN SYSTEM

I will haild a car for the great multitude

-Henry Ford (1922)

Why do some cities grow rapidly while others grow slowly? Why do some cities stagnate or even experience population loss and economic decline? Why did cities in the Dakotas and eastern Montana remain small while the midcontinent metropolises of Dallas-Fort Worth and Housion became hage? Why did Chicago's early loud-mouth boostensm give use to the "Windy Chy" label, not its high speed winds? Why did Detroit become the early center of the U.S. automot ve industry before the industry moved to the South, and why has Detroit suffered so much recently? These are the kinds of questions we endeavor to answer in this chapter through an empirical examination of how the U.S. urban system developed and grew

URBAN SYSTEMS AND URBAN HIERARCHIES

The concept of turban systems has to do with the ways that cities are related in interlinked, dependent ways, based on changing transportation and communications technologies. Cities exist within regional and national groups, larger and closer cities being more interdependent. The urban systems concept is derived from the basic notion of situation introduced in Chapter 1. The situation of a city or urban area relates to the cities' spotial relationships

with other places in the region or country. Situation in this case refers to a whole lot of different things. It can refer to other cities. Initially, it was primarily small cities located close to one another that competed for retail markets, industrial production, and rural-to-urban migrant workers. As the American economy grew and gradually matured and as transportation improved, more and more distant centers came into competition with each other. These arban struggles for economic, demographic, and political influence involve a whole group or system of cities. Situation can also refer to the availability of resources and the transportation networks that bring these resources to the cities for consumption or for further development. Many U.S. cities are located next to water routes, whether they be harbors or rivers, because of the relative ease by which resources could be imported into the cities. The string of large, industrial erries which developed along the Great Lakes in the n neteenth century testifies to the entical role these waterways played in facilitating the transportation of a massive bounty of mineral and agricultural resources from the countryside and into these cities for further processing. Proximity to transportation arteries also enabled manufacturing cities to send their goods to other cities, either for further manufacture or for heal consumption. In this manner, a whole system of U.S. cities developed.

Urban systems is a useful means to illustrate the relationships between cities at various scales. The concept of geographic scale, as described in Chapter I, is essential as a way of framing the different urban systems that come about. We can begin with the system of cities that applies at a global scale. At this scale and in the present day, we are mostly examining relationships between the biggest cities in the world, often headed by London, New York, and Tokyo with severa, eities occupying a position just below these three (see Chapter 4). This tho of first order "world cities" has been around for some time, but there are several crues that may be incontention in the years to come. In the past, when the United States was just starting to develop, there was a different set of premier cities, and these were significant in framing the urban system that prevailed at the time.

At the national or regional scale, it is imperative to understand the system of cities that anchors the national economy. Despite the impact of globalization, international boundaries continue to be significant in conditioning the flow of money, goods, and especially people into and out of countries. Differences in national cultures are also a significant frictional force. Most countries have distinct national. economies and an urban system to match. As a large, urbanized country, the United States enjoys an extraordinarily complex urban system, anchored by New York City on the East Coast, Los Angeles on the West Coast, Chicago on the Great Lakes and Houston on the Gulf Coast. This particular urban system has changed dramatically of course, and this change has mirrored changes in the U.S. space economy

Finally at the metropolitan scale, we can see the interaction of cities and towns within a metropolitan region. This is a region generally anchored by one large central city—occasionally there may be two or three large cities—which is then surrounded by a series of smaller cities, small towns and suburbs. There are many different ways to define these, but one way is to view these metropolitan urbun systems as consisting of one or more economic nodes—regional centers of economic activity—and the surrounding

cities, towns and rural areas that are economically related to the nodes

Central to the concept of urban systems is the idea. of the urban hierarchy, which again can be observed at several geographic scales. The urban hierarchy concept recognizes that urban centers are of different population sizes and have varying levels of economic leverage. One center may dominate another, and in turn may be dominated by a yet more powerful center. If we explore the ranks among centers, we can identify the largest and most dominant urban area down to the smallest and least economically important place Urban hierarchies, then, relate simply to the ranked order of cities based on different criteria, such as pontration size, economic power, retail sales, or number of industrial workers. What is more, the urban hierarchy iden ifies the structure of relationships that exist between cities. Several smaller cities may interact with the most important regional center. At a larger scale, these regional centers may in turn interact with a dominant national center. By analyzing groups of urban centers, valuable insights may be gleaned into the processes whereby these centers interact in various ways with one another. By analyzing such an urban hierarchy over time, we can better understand how certain urban centers have come to change places with other centers within the urban hierarchy

Rank-Size Rule and Primate Cities.

This principal of urban hierarchies can be formalized with the rank-size relationship which demonstrates the relationships among a system of cities at the regional or national scale. The relationship between cities within a national or regional system helps to determine the rank-size rule. The rule itself is very simple. Basically, the population of any city within a system can be predicted by knowing the population of the targest city in the system and the rank of the city in question. In an equation form, this means that

$$P_{i} = P_{i} - R_{i}^{-1}$$

where P is the predicted population of the urban area to be calculated.

P₁ is the population of the largest urban area calculated.

R₁ is the rink of the urban area to be calculated.

If the largest city has 1 million people, this means that the fourth largest city will have a population of 250,000 (1 million divided by 4). Figure 3.1 shows the theoretical rank size rule, where the rank of city size is plotted on the hardboatal (X) axis and the population sizes of cities are shown on the vertical (Y) axis.

So how well does this work in practice? Pretty well in the case of the United States, which has a large, integrated urban system. Because of the nature of American urbanization, where most cities spill well beyond momeipa, boundaries and into the suburbs, it makes sense to consider the urbanized areas. If you do this, you get the results shown in Table 3.1

This relationship is a bit more compressed than the model predicts, but shows a clear hierarchy. Other times, the relationship does not hold so well. This may be because two or more cities share the top of the urban hierarchy and are approximately the same size. This sort of binary system can occur when the national economy is divided into two parts, and each of the two cities serves its respective.

Table 3.1 Metropolitan Populations

	1990	2000	2610	Rado
New York	16.8	18.3	18.9	1
Los Angeles	11.3	12.3	12.8	1.5
Chicago	8.2	9.E	9.5	2.0
Dalas/Fort Worth	4.0	5.2	6.4	3.0
Philadelphia	5.4	5.7	6.0	3.2
Houston	3.8	4.7	5.9	3.2
Washington	4.1	4.8	5.6	3.4
Mium	4.1	5.0	5.6	3.4

Source: http://www.city-data.com/

region. The other aberration, quite common among arban systems, is primacy or the **primate city** phenomenon. This occurs when the largest city in the hierarchy is well more than twice the size of the second largest city.

The presence of a primate city denotes an uneven arban hierarchy. This can occur for a couple of reasons. Often countries that were once colonies contain

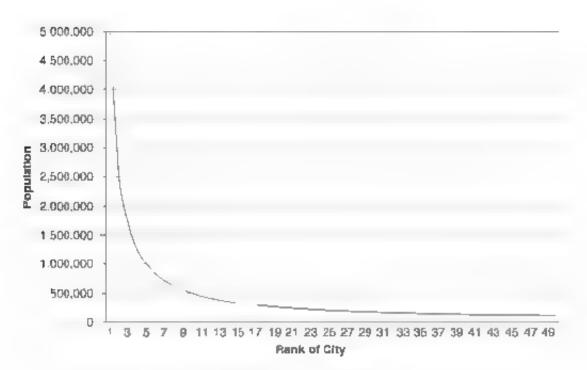


Figure 3.1 Hypothetical rank-size relationship. Source: Authors.

a primate city which was the colonial port city and economic center. As shown in Chapter 14, colonial territories were consistently underdeveloped, with the interior of the colony used mainly as a source of resources and the principal port city a staging ground for the extraction of resources which were then shipped to the mother country. The second reason occars within the former colonizing countries themselves. Those countries that controlled large empires to the past—such as the United Kingdom, France, and Austria-contoin cities that were once grand importal capitals but are now simply the outsized, primate city of medium sized countries. Other factors, including the degree to which a country focuses economic, political, and cultural power in one center, can also lead to the development of primate cities

The United States never had a primate city. While it began as a colony—or more accurately, a set of colonies of Great Britain, France, and Spain—the

nature of urban development was always fairly even, beginning with a set of cities along the At-antic coast, followed by further extensions into the M.dwest, Far West, and South, At each stage of the process, the rank-size distribution was fairly we integrated (Figure 3.2)

THE DEVELOPMENT OF URBANIZATION IN AMBRICA

The development of an urban system in the United States, and prior to that, the American colonies, had everything to do with the changing nature of the urban economy. There is evidence of Native American settlements throughout the present day United States and Canada. Native Americans, sometimes called First Americans, inhabited organized settlements, cumman Fes, and towns across the Americas. Most of the natives on the Eastern senboard were

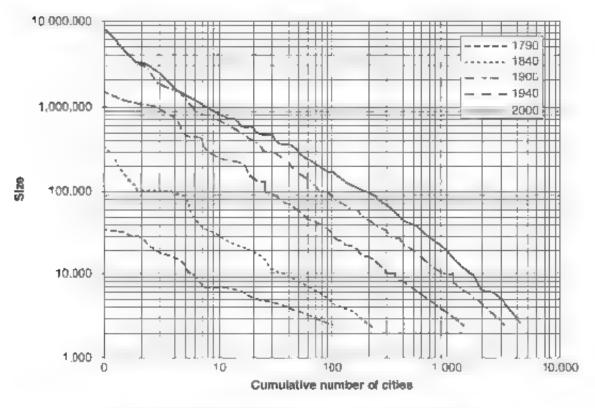


Figure 3.2 Rank size re accords pa for L. S. c. ties for selected decades. Some Authors

farmers, on the Great Plains and in the Canadian North, many were hunters and gatherers. The Southwestern tribes had developed sophisticated irrigation systems. In fact, Native American settlements and their networks influenced the location and growth of the subsequent European towns and cities, as well as later roads and highways. Yet it would be a stretch to call most of these settlements "urban," in contrast to some of the truly urban centers of civilizations like the Mayans, Aztecs, and Incas in Central and South America.

The first "urban" settlements in North America occurred as outposts of European economic exploration and as military lowns. By and large, the United States was born during the period when commercial capitalism-trade-still dominated the globaeconomy. The American colomes were brought into this trading economy in a more or less exploitalive way North America was less prized than the nches ancovered in the Caribbean and South America, but it did present a bounty of forests, wildlife. and fish. And with development, it was discovered just how rich the soils were and how plentiful water and a favorable climate could ture this area into a source of agricultural commodities. So the colonial idea was that North America would be used primarmy for resources, both extractive and agricultural Most of the maigenous population was wiped away, whether through disease or under duress. Those who remained were malterably affected by the European encroachment, demanding European goods like tools and guns in exchange for fur. The Eastern seaboard was soon populated with European settlers and involuntary migrants from Africa.

After gaining independence, the United States continued its focus on agriculture but soon shifted from a primarily commercial economy based on agriculture to an industrial economy based on manufactured goods. This altered the situation of cities and the overall urban system. But we can begin with how urbanization first began in the United States.

Mercantile Cities Model and the Early Development of the U.S. System

The dictionary defines "mercantile" as "characteristic of merchants or trade." The Vance mercantile critis.

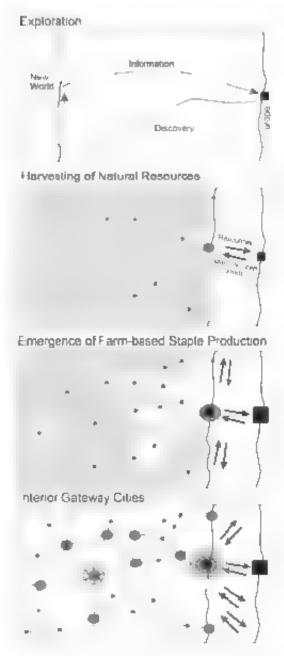


Figure 3.3 Vance's (1970) mercantile cities mode, showing the four stages of exploration, harvesting, stapte production, and interior gateway cities. *Source*: Hased on Vance, J. E., Jr., 1970

model (1970), shown in Figure 3.3, seeks to explain the development of the North American urban system based on (1) the role of merchants during five stages or eras, and (2) the role of long distance trade. This can be a useful way of describing early U.S. urbanization

The first era, Exploration, was characterized by smal. North American settlements based on local markets and weak trade ties with Europe. Most of the original impetus for conquering and colonizing America was economic. Europeans began to see the American continents as vast repositories of raw materials, fish and far, and a source of land for bungry chicas.

In the second era, Harvesting of Natural Resources, North American resources, codfish, timber, fur, are shapped to Europe Small settlements become established at fishing ports and timber camps. This era witnessed broad differences between the Iberian colonizations in Latin America that seemed more imperial, and the Protestant colonizations of North America, that seemed more commercial But many of the goals and processes were similar.

In North America itself the Spanish established settlements where much of the economy was based around agriculture, especially ranching. The

earliest of these Spanish settlements were found in the Florida settlement of St. Augustine, established in 1565, and in what is now the L.S. Southwest, where mission cities such as Los Angeles. San Antomo, Son Diego. San Francisco, and Santa Fe were hunt

Also agrificant was the French presence largely in what is now Quebec but all along the Mississippi into a huge area called New France (Figure 3.4). Most of this vast territory remained claimed but effectively untouched, with just a few outposts and flags to suggest the French presence But along the St. Lawrence River in present-day Quebec, it was a different story. The Quebec settlements were set up as a quasi-feudal society, complete with lords and tenants. Second-ranked nobility who could not gain adequate estates in France moved into this extensive but fairly severe territory. The soil and claimate gave little, and most of the agriculture which resulted was primarily for subsistence. The area was very sparsely populated with only about 20 000 settlers.

The real focus of the economy lay in the fur trade. The vast forests of Canada contained a lot of wildlife, and European society developed a penchant

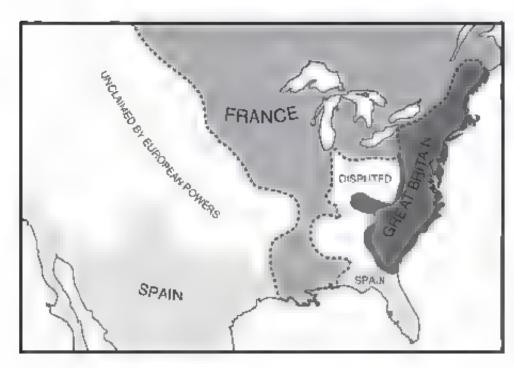


Figure 3.4 The French presence in North America. Source: Authors

for beaver hats. It was the search for far that led the French to establish outposts around the Great Lakes and down the Mississippi, establishing the small sci-tlements of Detroit, Montreal, New Orleans, Quebec City, and St. Louis. The colonial Dutch also set up a fur trading post on New Amsterdam (Manhattan Island), later renamed New York.

It was the English colorists who had the greatest and most lasting imprint on North American settlements and urban development. Well known to American historians are the settlements at Jamestown (1607), Williamsburg (1663). Attrapo is (1708), Charleston (1672), and Savannah (1733) Many of these initial centers have declined relative to the U.S. urban hierarchy, although they retain an enormous degree of colorial-era charm. Other cities such as Boston, established in 1630 by Puritan dissidents, and Philadephia, carefully laid out as a Quaker settlement by William Penn in 1682, quickly became important centers for European trade and have retained their status over the centuries.

The third era, Emergence of Farm-Based Staple Production, saw settlements developing in agricultural regions for the production of cotton, tobacco, and grains for export in return for manufactured goods from Europe. This is when the Atlantic portitues grew in importance to handle this two-way trade. Boston, Charleston, and Savannah continued to develop as crucial mercantile centers.

Although we think of New York today as the center of the U.S. economy and one of top grobal cities, in the colonial period and into the eighteenth century New York was no grant city in fact, Philadelphia was the leading center of population from 1760 through 1790, the latter year marking the first U.S. Census of Population (Table 3.2). In 1760, Beston was also larger than New York. In 1790 all settlements with more than 10,000 people were port cities whose functions were tied with European ports, primarily the English ports of London and Liverpool, One of these ports, Charleston, South Carolina, in 1775 was the fourth largest city in North America. In contrast today it is only a modest sized

metropolitan area of some 265,000 people, reflecting a long tumble down the urban hierarchy Baltimore got a ate start as a port city, but more than doubled its population between 1775 and 1790, making it the fastest growing city during those 15 years and, by 1790, the fifth largest city on the East Coast (Figure 3.5). New Orleans also emerged at the end of the eighteenth century as a crucial port at the mouth of the Mississippi River. Under Freach control at its inception, it would later be sold to the United States in the famous Louisiana Purchase of 80.3

The fourth era, Interior Gateway Cities, show cities as warehouses for commodities and typically located along transportation routes, Increased resource-based exports from North America were met with increased imports of manufactured goods from Great Britain and other European countries. As colonies and even into the first few decades of independence, the United States played an economic role focused still on commodities for export (see Box 3.1).

American regions differed greatly in this regard. The South was a classic export scottomy. With nich land and a settlement pattern fied around large estates or plantations, the South produced tobacco, nice, indigo, and later cotton. The area around the Chesapeake Bay, what became Virginia and Maryland—was based primarily on plantation agriculture. This required enormous amounts of land and labor. With the exception of a few port cities, the

Table 3.2 Population of Leading U.S. Port Cities, 1760–1790

Port cines	1760	1775	1790
J O12 L-RCa		1000	
Bultimore	Not a city	6,734	13,503
Boston	15,631	16,000	18,038
Charleston	8,000	14,000	16,359
New Orleans	Not a city	Not a city	5.338
New York	14,000	22,000	30,305
Philadelphia	18.756	23,739	42,520

Source Adjas of Parly American History: The Revolutionary Era. 1760-1790

BOX 3.1 AMERICA'S ANTI-URBAN BIAS

The United States has long been an urbanized society, but also one that was mistrustful of cities. From its earliest days as a republic, a number of prominent Americans voiced their distrust of cities, and this percolated into a broader national consciousness. It may have had something to do with unique circumstances of the American countryside Land was plentiful and rural life aid not represent oppression, except of course for the enslaved population. When the United States was coming into its own as a country, cities in Europe were changing as they industrialized. becoming bigger, dirtier, and slummier. With industrialization more people were drawn to places, lke New York, Boston, Philadelphia, and Chicago, but it does not mean that they I ked them.

There has always been a kind of anti-urban bias in the Unites States—a feeling that cities are evil, even if they are necessary evils. Thomas Jefferson was particularly fearful. of cities and especially anxious that the European city with its slums, vice districts, corruption, and annecessary idleness would invade America. The city represented "moral depravity," "wretchedness," and "vice," while the country represented sound morals, honest work, and tranguil pleasures. Jefferson would have preferred that there be no cities. at all, but began to see that there was nothing he could do to stop them.

region was rural with a few rich landowners at the top, who relied first on indentured servants and rater, African slaves.

New England had some extractive industries fur and timber), but was at a comparative disadvantage when it came to agriculture. The soil was rock-strewn and of poor fertility. The most valuable export was in "shipping services." Moreover, the Massachusetts Bay colonies had been estab shed under different economic terms. Most of the settlers—Puritans—arrived for non-economic reasons. They established an economy based mainly around subsistence agriculture. However, this area metamorphosed into a commercial entrepôt (a trading and distribution center). By 1700, Boston had become a pivot in the Atlantic economy

Later nineteenth-century writers like Ralph Waldo Emerson, Henry Thoreau (Figure B3.1), Herman Melville, and Nathanie. Howthorne all viewed the city as the center of vice, commercialism, poverty, sta-you mame it. True spirituality could only come out of a rural setting. Emerson made the distinction between the city as the seat of "understanding," "toils," and "contrives," whereas the country imbued "reason" and "vision." Thoreau, for example, was happiest when he lived in complete solitude. op Walden Pond.

One can discount these feelings as biases. But to varying aggrees they did reflect intellectual and popular opin of And as the size of cities increased, the degree to which people hated and feared the city also increased. By the early twentieth century, urban life was surpassing rural life. Coming out of the "Chicago School" of laban sociologists. much of the schourship on cities resterated the unti-urban biases of the nineteenth century. One dominant theme was that cities were not only evil, but that they made the people who lived within them evil as well. We can describe this as an urban determinism. Determinism is when one factor overrides all others in causing something. Living in cities was seen as a way to bring about all kinds of social disease. or social pathologies (see "Community Lost" perspectives. n Box 7).

The middle states-New York, New Jersey, Pernsylvania-relied mainly on family farming with slaveholding rare. These were established as agricultural colonies that relied on grain exports. By the early 1700s this region was exporting grain to the Cambbean, the American South, and Southern Europe, Agricultural success led to commercial success, with Ph. ade phia at its center

During this era, the United States shifted from a colonial relationship to one where it emerged as a fully integrated urban system. It should be noted that in the early nineteenth century, even the upper end of the U.S. urban hierarchy was tiny by contemporary standards. For example, New York, the largest U.S. city, then had only 60,000 people, comparable to Casper, Wyoming in the year 2005. The three



ether major cities in 1800—Philade, phia, Boston, and Battimore—would not qualify by today's definition as metropolitan areas because of their small size. The four leading cities in 1800 were port cities with strong primary linkages to Britain and selected other Western European nations. All of these centers served a limited surrounding territory, cailed hinterlands (the land behind, see Chapter 2) to collect commodities (largely raw materials) for export and to distribute commodities (mainly manufactured items) from overseas as imports. The former were referred to as export limiterlands and the latter as import hin-

By the end of the fourth era, the North American market had grown to a sufficient size to accommodate both large-scale domestic manufacturing and

tertands.

The city was seen as basis of all kinds of stimuly horns. honking, large impersonal growds, and greater chances. of being mugged. This sensory overload meant that the people who aved in the city have to adapt some way in order to protect themselves. This makes them much colder. more casculating, and a lot more stressed. Following this came the idea that arban dwellers live in an essentially impersonal world. A small town has all kinds of primary ties. You know neonle in several different ways: as a grocer, a brother-in-tow, a ne ghbor. But in the city, all ties are secondary-you know people in only one way That means that people have segmented roles, resulting in social estrangement—the feeling of being rost and alone in a huge impersonal crowd. The lack of primary hes also means that people have no restrictions on behavior no one looks over their shoulder to make sure they're behaving. So urban life was said to lead to more crime and other acts of degeneracy. This was a feature described as arban anomie—a distinct lack of rules or norms of decent. behav or

So he city came to be seen, scientifically, as the center of stress, estrangement, vice, and crime. And not only did it contain many people with this fand of behavior, but it also transformed good, wholesome folks from the countryside into detached, unsympathetic urban animals.

the development of several large urban areas. At this point, the United States was no longer a colony, although it did show some aspects of a colonial relationship, particularly with Great Britain

The change in urban economy began to be reflected in the size and status of the largest cities. But he end of the eighteenth century, New York City had emerged as the dominant city. In 1800 it was about 50 percent larger than second-ranked Philadelphia. New York grew significantly in size and importance during the early nineteenth century with the opening up of the Midwest and later the Mississippi and Missouri valleys. By 1840 New York had become more than three times as large the three second-tree cities in the U.S. urban hierarchy Baltimore, Boston, and Philadelphia (Table 3.3).

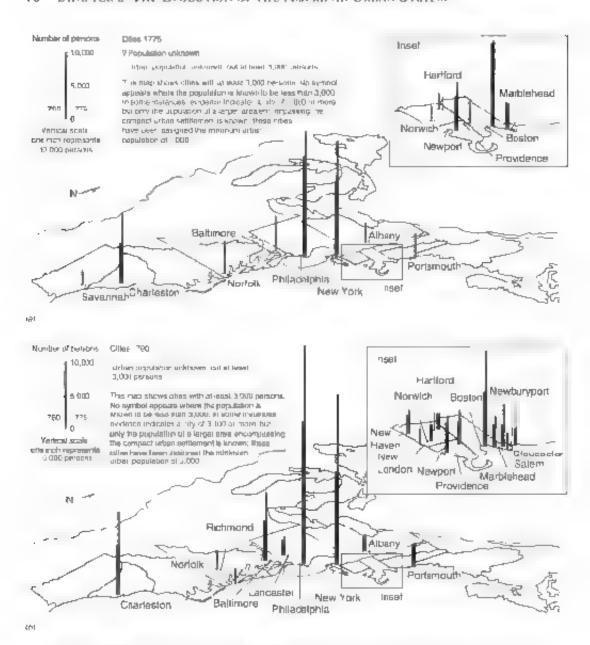


Figure 3.5 Populations of major East Coast Ottes in North America in (a) 1775 and (b) 1790.

Source: U.S. Census of Population

The faster growth of New York during the first few decades of the 1800s was due principally to the center's ability to expand its import and export binterlands into inland locations.

By the early mineteenth century, we began to see a number of interior cities take shape Albany, Buffalo, Cincinnati, Cleveland, Chicago and St. Louis. These cities were quite small by today's standards, but would grow steadily and sometimes spectacinarly during the rest of the century. In keeping with Vance's model, the extension of the urban system into the interior, across the Appalachians, then across the Mississippi, was a true expression of central place infilling (Box 3.2).

Table 3.3 Population of Leading U.S. East Coast Port Cities, 1800 and 840

1800	1840
26,514	102,313
24,937	93,383
60,515	312,710
41,220	93,665
	26,514 24,937 60,515

Source: U.S. Hareau of the Census

U.S. URBAN DEVELOPMENT IN THE NINETEENTH AND TWENTIETH CENTURIES

From the early days of the United States as an independent country, the growth of cities proceeded at a pell-mell pace, pushed along by rapid population growth, vast tracts of land to settle, early industrialization, and the development of transportation net-WORKS.

The United States had barely 4 million people during its first official census of 1790. By 1810, that number had almost doubled. Twenty-five years later, the population had doubled again, and doubled yet again 25 years after that so that by the eve of the Civil War in 1869, the population was over 30 miltion (Figure 3.6). This rapid increase was abetted by both a high birth rate—Americans had more children than people in the Old World, and the children and indeed the population as a whole tended to be a great deal healthser-and by prodigious immigration rates, discussed in Chapter | 0

Despite this rapid population growth, the United States always had more than enough land. The problem was not overpopulation—an issue plaguing European countries, which simply could not provide enough land for their citizens. Instead the problem was underpopulation. The very early independent Juited States contained 13 lightly populated states and then all of the lands of the Northwest Ordinance. which rapidly were converted into a dozen more large and underpopulated states. The Louisiana Purchase, the purchase of Florida, the war with Mexico and annexation of Texas, and finally the Oregon Treaty arguably gave the United States more good, productive land than any country had enjoyed in the history of the world. All that was needed to do was to settie it.

The availability of land in the United States made agriculture far more attractive than in other parts of the world. The ideal of the yeoman farmerindependent, self-remant, and prosperous-fit into the anti-urban bias discussed in Box 3.1. At the same time, the United States began to industrialize not too long after Great Britain did. Not surprisingly, much of the early industrial activity took place. in New England, with the development of textile mills in the 1830s. Southern New England attracted industry because the region was one of the worst spots for farming, with a relatively harsh chimate and rock strewn fields. It also had emerged as a major trading center with a merchant class which had the wherewitha, to finance new factories. Interestingly, text less had also been the leading industry in Great Britain, and both England and New England developed a rapacious desire for cotton, much of which was grown in the American South. Early industrial advantages here and in neighboring New York would spread to the rescof the Northeastem states and then M dwestern states.

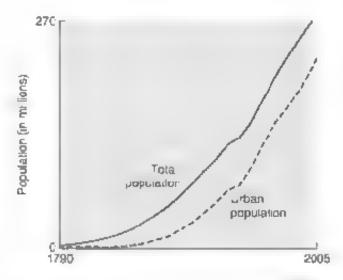


Figure 3.6 Change in U.S. total and arban population, 1790-2005. Source: U.S. Barcau of the Census.

BOX 3.2 CENTRAL PLACE THEORY

Central place theory is one way to understand the spatial logic of settlement patterns. The foundations for this theory were laid by Walter Christailer. Central place theory seeks to explain the size, spacing and functions of relatively small urban settlements or central places. Five key principles guide these relationships

- The larger the size of a central place, the greater the distance it will be located from another central place of the same or larger size.
- The larger the size of a central place the greater the number of retail and service functions or activities found in that central place.
- The larger the size of a central place, the larger the trade area served by that central place.
- 4. The larger the size of a central place, the higher the order of the functions served by that central place, with larger centers having higher-order functions, and smaller centers having lower-order functions.
- The larger the size of a central place, the fewer such places, with smaller central places being larger in numbers.

Transportation Networks and Urban Development

While the United States has recently lagged behind other countries in transportation innovations, this was not always the case. In fact for most of its history, the United States was the transportation leader as it eagerly adopted innovations in canal dredging, radioad expansion, the personal automobile, and the road building that went along with it. These innovations had major influences on the shape and expansion within U.S. cities themselves, which is discussed in Chapter 5. These innovations also guided the expansion of the U.S. urban system from the early unnetcenth to the mid-twentieth century

To demonstrate this point, John Burchert (1967) developed a stage model of transportation and identified particular transportation epochs in American urban history, each of which was characterized by fundamental changes in transport technology. Each

Figure B3.2 shows an optimal central place landscape, obeying the five principles highlighted above. The three largest centers are located an equal distance from one another. These three large centers are also located at the greatest distance from one another. These large centers have the largest trade areas (hexagonal in shape), and the smallest centers (hamlets) have the timest trade areas. The largest centers offer the widest range or highest order of goods and services, thus attracting consumers from the greatest distances and thereby creating the largest trade areas.

Lake any economic model, the assumptions guiding central place theory are strict and somewhat unrealistic it works best in regions with an even population, few major transportation distinctions, and where there are no distortions caused by monopolies. If the assumptions are eased, the principles behind central place theory may still apply, but the outcomes may look different. For instance, if population density patterns are uneven, lower densities will result in a much more spread-out pattern, higher densities will create a more

epoch brought about changes in the spatial interactions among urban areas as well as changes in the internal arrangement of activities and functions of urban regions. Using Borchert's scheme, we can identify five transportation eras, listed in Table 3.4

Differences in transportation were important precisely because moving freight or people cost time and money. Trying to move through a dense forest of across a mountain pass was time consuming, expensive, and often dangerous. Without any large-scale

Table 3.4 Transportation Eras

Horse, wagon, and waterway era	pte-1820
Canal era	1820-1840
Regional railroad era	1830-1870
National radroad era	1870-1920
Automobile and air era	1920-present

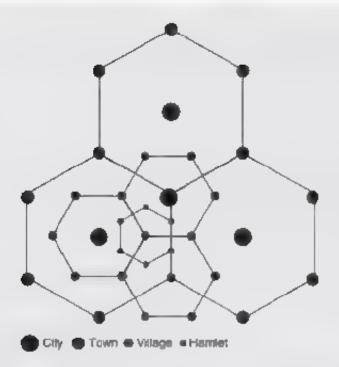


Figure B3.2 The optimal central place hierarchy showing the size and spacing of hamiets, vuluges, towns, and cities. Source: Authors,

compact grid. The model also ignores the effects of differential taxes on goods and services, and better price and quality resulting from comparative advantage. For example, LaCrosse, Wisconsin, markets intire beer to Chicago than the other way around. That is because it brews better beer. Huge superstores like Walmart may have an outsize effect by capturing market share from faraway as a result of lower praces and better selection.

Despite its shortcoming, central place theory addresses how urban systems develop under market conditions. It only considers commercial functions of cities, and it makes a number of simplifying assumptions. But it works well to explain the filling in of the urban system in the agrananparts of U.S. frontier during the mid-nateteenth century. It also can be useful in understanding the distribution of retail. centers within cities.

transportation infrastructure, people relied on natural transportation arteries to get them and their goods. around. Natural harbors on the seacoust or favorable. spots mong navigable riverways—especially where two rivers converged-were desirable, and this is where early U.S. cities emerged. Later innovations would expand the number of potential urban sites and enhance some of the advantages accrued to already established cities.

Horse, Wagon, and Waterway Era The first era relied on soads and waterways. The particular problem of the United States was that there was lots of land, few people, and huge natural barriers. It took weeks to go several hundred miles—for example, 33 days from Philadelphia to Savannah. This made the exchange of products very difficult

The United States also had a weaker system of roads initially, most of which just made some

connections along the coast. As a colony, the country had been connected primarily to England, and so towns and transportation developed in that manner Many of the roads that did exist had begun as Native American paths, then trails, then pack trails, then wagon roads that could actually sustain a wagon (Figure 3.7)

The early United States clamored for better roads but the problem was that, unlike England or France, the federal government did not want to pay for roads. It had to be paid for by the states, so financing was a big problem. Rich states had a huge advantage over poor states. Private companies also got into the mix. The American tumpike era, in which private companies would finance a road and exact tolls to pay for them, began in 1785 and then lasted for about 40. years. The reason was that the better turnpake roads. allowed a team of horses to move stuff twice as far But the problem with tumpikes was that they did



Figure 3.7 Historical picture of 1890s dirt road in Chattanooga, Tennessee

not usually make a good return on the investment. Without something else to sell, companies lost money on these ventures and stopped financing the roads.

The cost of transporting something by water is a whole lot less than the cost of transporting overland, especially along the substandard roads that prevailed. With the development of the steamboat in the 1810s, waterways became even more useful since boats could now travel upriver. By the early 1820s there were services between New Orleans, \$1, Louis, Louisville, Cinc nnati, Pittsburgh, and Nashville. The development of steamboat conveyance was especially useful on the major rivers, but they still needed a way to get between major water systems, for example between the Great Lakes and the Hudson River.

The urban system in the early United States reflected this reliance on natural waterways. Nearly every large city hugged the coast or were established along large rivers close by Hanford (along the Connecticut River), Albany (along the Hidson River), and Richmond (along the James River) became the principal interior cities of the time

With the growth of population, more and more settlers crossed into the interior. Most were involved in farming, but small-scale urban development ensued as well. These settlements provoked great concern. AF of these people moving westward had very weak connections to East Coast cities. They presented economic problems, but also potent all political probiems. What would happen if the people in these regions decided it was in their better interest to join up with the British North American settlements across the Great Lakes, or with the French or Spanish settlements in the Southwest, or just decide to secrete and form their own country or countries? After all, each territory was as large as a European country and could have easily formed an independent state of its own

Shortly after Ohio was admitted to the United States, the potential problems called out for federa intervention. The Secretary of the Treasury. Albert Gallatin, devised a plan in 1808 intended to accomplish four goals. The first was to develop paradel land and water traffic ways along the Atlantic Scaboard, including a great tumpike from Mane to Georgia and a protected coasta, waterway. The second goal was to create more connections between the rivers and streams flowing into the Atlantic and the western waters. The third was to connect the Great Lakes system, which flowed out to the St. Lawrence River, to both the Atlantic (mostly via the Hodson) and to the Missassippi River. Finally, the Gallatin Plan sought a system of westward roads to the various frontiers.

Conal Era The United States was blessed with an extensive coastline and numerous rivers. Yet as the Gallatin Plan had shown, there were complications involved in linking some of the water systems together The Great Lakes had become a major region of settlement and was surrounded by rich farmland and many other resources, but there was no easy way to move cargo from this region to major East Coast extess In other cases, the rivers that this exist were far too narrow or wild to allow adequate penetration into interior lands.

The socution ay in canals. This was an old technology; some of the most prominent versions are China's Grand Canal and the canals that defined significant Medieval European cities like Venice and Amsterdam. Canals could be used to link together water systems so that freight (and passengers) could move about the country. Generally, canals did not enhance the speed of travel, but they did reduce the

cost of transportation. Downriver rates and canal transport were far cheaper than overland transport Canals could also be major undertakings. Any changes in elevation had to be accommodated with locks-a chamber where a boat could be raised or towered with the addition or subtraction of water (Figure 3.8) On steep terrain it was not uncommon to have dozens of locks in quick succession.

In quick succession, several states decided that they wanted to create a series of canals that would help facilitate the transportation of goods and people. It should be emphasized that these were the dec. sions of the states—and it was states like New York. Pennsy vania, and Ohio which led the way in the construction of new canals. In New York, the biggest and most important of all canals was the Erie Canal, which opened in 1825 and linked the Hudson River to the Great Lakes (Box 3.3).

Ohio was developed largely around the creation of several through canals and canal spurs. By 1825,

Ponts and Photographs Division, Nietaric American photograph by Jet Love Library of Congress, Engineering Record

Figure 3.8 Looking towards both old and new locks at Lockport Locks, Lockport, New York

the small settlement of Cleveland (or Cleaveland as it was spelled at the time) became the porthern terminis. of the Ohso and Eric Canal, a massive undertaking that was eventually meant to connect Lake Erie all the way south to the Ohio River. This canal, which linked to Akron in 1827 and then to several points south belped to make the city of Cleveland the largest city in northeast Ohio, with a population of 6,000 by 1840. The population tripled by 1850 and tripled. again by 1860 as Cieveland became Ohio's largest city (Figure 3.9). In the western part of the state, the Miarni and Eric Canal connected Toledo on Lake. Erse to Cancinnati on the Ohio River, enhancing the satuation of both settlements.

In fact, the effect of canals was to create a situation. where the northern third of the country could get their cargo onto a canal and then either directly to the east coast or via the Great Lakes. Now agricultural goods from the eastern Midwest could be shipped eastward. via the Erie Canal and then southward via the Hadson River to the port of New York, Because the Erie Canal was built along the eastward-flowing Mohawk River, the expansion of New York's demographic and economic dominance reflected the city a strategic port location with respect to the Mohawk and Hadson valleys. In contrast, Philadelphia and Baltimore. were "blocked" from easy transport access to the growing agricultural Midwest by the rugged terrain of the Appalachian Highlands, including the Ridge and Valley region and the Appalachian Plateau. Likewise, Boston's westward hinterland was curtailed by the low lying Berkshire Mountains of western Massachusetts.

Regional Railroad Era Canals filled a short but crucia, gap in the history of U.S. scalement. But they were rapidly supplanted by the coming of the steam. locomotive and the radioad. Unlike canals, which connected existing waterways, railroads could create their own pathways and go wherever they wanted And while they were not quite as economical as canals, railroads were a good deal faster, making it possible to speed goods to factories or markets.

Railroads were first developed in Great Britain but eaught on in the United States quite quickly. The first

BOX 3.3 THE ERIE CANAL

Most children grow up singing the famous song about the Eric Canal, but it may seem like a relic from another era. The Eric Canal came about is a result of a tremendous need. The accessible waterways lending to East Coast cities like New York City, Boston, and Philadelphia did not go all the way to the Great Lakes, and transport across upstate New York was slow and expensive

The Eric Canal was initiated and completed in 1825 under the authority of DeWitt Clinton, governor of the richest state in the Union. It flowed over 350 miles across New York State between Albany in the east and Buffalo in the west. And it required some \$5 locks to conquer the 571 foot difference in elevation between the two cities. The cost was paid by a bond issued by the state of New York, and was repaid through tolls. As the canal became extremely popular, it paid for itself within just a few years.

The impacts of the Fire Canal were profound. First of all immigrants were the primary labor force responsible in building the canal, and so this led the way for their incorporation into U.S. economic life. Secondly, the Eric Canal led the way for imgrants of all sorts to travel westward. The canal boats, all pulled by males or horses along the towpath,

could transport a lot of freight and families could bring themselves and all of their belongings to start a new life in Ohio. Michigan, Illinois, or Wisconsin. The canal was also a place for pleasure brinting. Affluent New Yorkers would rent or purchase beats to take along the canal, reveling in the excitement and the beautiful scenery.

The Eric Canal also had a tremendous effect on cities. The biggest beneficiary was New York City, which comented its position as the country's most prosperous port, strongest economy, and biggest city—in position it still bokis 200 years later. Beyond thus, the canal gave a boost to a whole string of crites in upstate New York. Albany, Schenectady, Utica, Syracuse, Rochester, and Buffalo. Even today, almost 80 percent of the population in upstate New York lives within 25 miles of the Eric Canal (Figure B3.3).

Although the Eric Cana, is no longer the most important waterway in the United States, it is still in use because it is economical. One gallon of thesel fuel will pull one ton of cargo 59 autes by truck, 202 miles by train, and 514 miles by canal barge. Each barge carries as much cargo as 100 tracks. And the scenery along the canal is still gorgeous.



Figure B3,3 The firite Canal at Rochester. New York, carea 1900

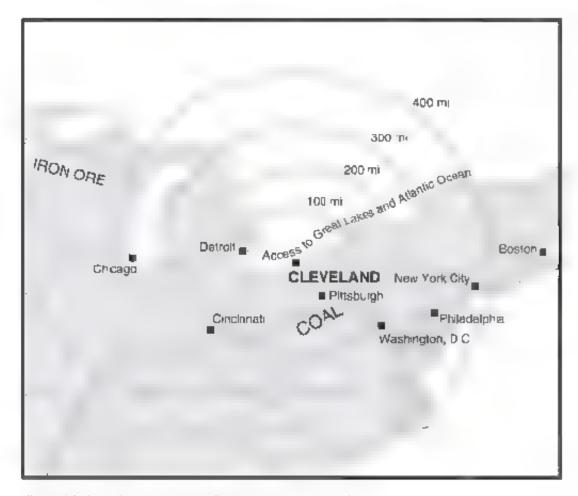


Figure 3.9 Map showing Cieveland's situation. Source: Authors.

J.S. railroads, between 1820 and 836, went only for short distances. Much of what they did was tie together interior towns near the coast or he bodies of water together. For example, one railroad connected Boston with Worcester, while another tied Lake Champlain with Montreal and the St. Lawrence River, This allowed big cities to have even better access to their interior (hinterland) and to connect bodies of water

The furthest integration occurred with the construction of railroad tracks, and investment in railroads exceeded the investment in canats by the 1840s. Much of this railroad construction was in the M dwest and helped to the this region with the

East, These trans-Appalach an routes further tied the Midwest into the easiern orbit. Most farmers now had relatively easy access to some cheap transit source. Few lived more than 20 m les from a ratiroad or a navigable waterway/canal. Important coastal cities quackly got into the act of railroad building. Balumore, by then one of the top cities in the country, wanted to build a railroad af the way to Wheeping and to the Ohio River and open the city up to the western states and territories

The problem during this phase was that, since all of the rational companies were private, there was no standardization. Many of these radreads operated on different gauges-track widths. This made

connections difficult, since it was impossible to take the same train from one track to another track of a different gauge

National Railroad Era: By 1860 a large portion of the United States was serviced by railroad. The extension of ratiroad lines into the Midwest created a vibrant region that stretched from Boston all the way to St. Louis, which had become a major city as a result of these transportation developments. It bears mentioning here that while the Northeast and the Midwest had benefited mightily from these developments, and had urbanized accordingly, the South was left out of the integration. It was still oriented toward its commodities and its export markets.

California had becomed with the discovery of gold and on the strength of its agricultural resources. San Francisco—as the largest city on the Pacific—had almost 60,000 people, equivalent to Cleveland. The last thing needed was to connect the Pacific coast to the rest of the country by railroad. The opening of the transcontinental railroad in 1869, and of three more transcontinental milmads by 1883, are complished this goal and created a continental web (Figure 3.10).

By the end of the nineteenth century the United States had by far the largest radroad network in the world, and it was commung to grow. About 7500 k, lometers of radroad track were built annually after 1880 By 1900 the United States contained more than 312,000 km of radroad network, bigger than the combined networks in all of Europe. This extension of radroads had a dominant role in U.S. urban development throughout the nineteenth and early twentieth centuries. As it also coincided with the time when the country became urbanized (see Figure 3.6), we could say that radroads were the most important impetus in U.S. urban history.

Railroads developed the urban network in two major ways. The first was by strengthening the advantages accruing to specific dominant cities. As always, New York City benefited from the ability to move people and products faster from the interior. But the interior cities expanded even more and began to develop as higher-order cities for their regions. By 1890 Chicago became the second targest city in the country, surpassing Ph ladelphia, as it combined its favorable situation on the Great Lakes with a web of railwood mes that converged right there it emerged as the capital of the Midwest, Alongside Chicago,

U.S. Railroad System in 1870

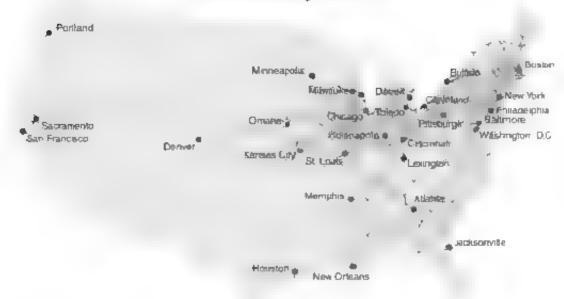


Figure 3.10 Map of U.S. radroad network, 1870 Source: Authors

St. Louis, Cleveland, and Detroit also came to dommate their smatler regions. With the opening of the transcontinental railroads. California cities like San Francisco and Los Angeles also had room to grow San Francisco became the hub of the overall region; distance from the East allowed the city to operate with a great deal of autonomy

The second way that rauruads aided arbanization was through the development of wholly new urban centers. Especially in the Great Plains and the West, the railroads helped to develop towns, starting with governments granting land to some 70 private railroad companies. Overall some 134 million acres were granted by the federal government and some 49 million acres were granted by various states. Such a give-away was unprecedented and represented an area bigger than Great Britain, Spain, and Be grum combined. These lands were largely controlled by Eastern interests. Distribution centers for commodities emerged as the major cities of this broad region.

The railroad companies wanted to make good on their land grants by being abie to seil off enough land to farmers. Railways recruited people to settle on their land, working often with the immigration bureau. It was important to railroad concerns that these prospective farmers be serviced by enough towns, so the companies made sure to space the towns along the tracks to serve as collection points for grain and other commodities. These railroad towns also developed in a particular way. Their shape tended to be completely oriented to the tracks, with the elevators lumberyards, and depots at immediate proximity and the other town functions not far beyond (Figure 3.11)

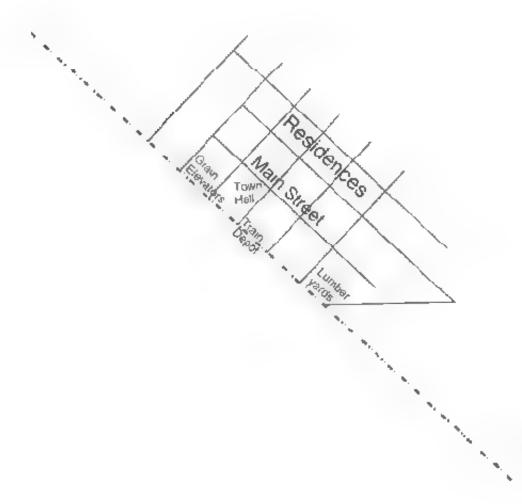


Figure 3.11 Mode of railmad town priented to railmod tracks. Source Authors,

52(1)

Some of the same activities took place in the Far West, but here the economies were more oriented to mineral extraction rather than agriculture. The gold rush had brought huge numbers of people to California and had transformed economy. By the late naneteenth century, mining changed into a large-scale, capital intensive industry. Many cities thus emerged as service centers for the new migrants.

Auto and Air Era The rathroad era lasted a long time in American history and filled in many of the blank spots on the map. Many of the rai road's advantages continue to do this day, particularly in regard to speed and cost of transporting freight. But the railroad also had some major disadvantages. One was that despite the fact that the United States had greatest network of railroads, there were still large areas that were un- or underserved. To be away from a railroad or a river meant to be maccessible, and many places found themselves marginalized by the railroads. Radroads and the trains that ran on their were asmost all privately owned, and even though compames managed to standardize the gauges and other aspects of the rangood networks, it was private interests that determined where the networks would go. Regions that were unprobtable were left out. What is more, for passenger travel, railroads lacked privacy and required people to adhere to fixed schedules and CONTICK TORS

The car promised to change all of that It was an auto-mobile and allowed for people to travel on their own time and wherever the roads could take them. Yet the advantages of railroads continued well into the twentieth century and long after cars had been introduced. In fact, early automobiles did not diffuse too rapidly. They were expensive, hard to start, and hard to maintain. Plus, the United States lacked a network of roads for them to travel on. They were generally playthings for hobbyists of the very wealthy. In 1905, only about 75,000 motor cars were registered in the United States, fewer than one in 500 Americans had access to a car. Going cross-country was still an adventure, and newspapers would chronicie the exploits of those brave souls who attempted such

a feat. In fact it was not until 1903 that the first const-to-coast automobile trip completed, taking 64 days—of which 19 days were spent fixing the car. A few years later, automobile caravans would take groups of cars on transcontinental journeys—each taking several weeks, but promising adventure.

Developing a true cur custure in the United States was accomplished first through the mass production of automobiles. In 1909 Henry Ford introduced the Model T (Figure 3.12), which benefited from being cheap—through the use of assembly line techniques and standardization of the product—and rugged. Its high carriage allowed it to traverse a lot of rutted roads. The Model T was very successful, by 1915, a million Model T cars a year were sold. By 1920, half of all cars in the world were Model Ts. More and more people could afford a car, especially in the United States. By 1930 there were 26 million cars, or one for every five people. This was a ratio not seen in Western Europe antil the late 1950s (see Chapter 13).

Once enough Americans had automobiles, the next step was to develop a decent road network. Most roads were little better than farm roads. In fact, the mileage of all surfaced roads, often made out of sand, gravel, or macadam—was less than railroad tracks in 1915. Concrete roads became popular in the 1920s and these could withstand more and heavier traffic.

But to pay for a good road network meant that there had to be some mechanism for public financing. The Federal Aid Road Act was passed in 1916, calling for a national program to improve the road network. But the control and most of the financing of roads was still left to the states. Poorer states, especially in the South and West, continued to have bad roads and poor road access.

Finally, the national highway system was established in the 1920s, financed by gasonine taxes. This spurred a tremendous amount of road construction including many routes in use today. The Interstate Highway System, begun in the 1950s, allowed for arge, limited-access superhighways. Box 3.4). This 41,000-mile network was mostly paid for by the federal government and cost billions—\$26 billion in



Figure 3.12. An early model T.

1956, at a time when the entire federal budget was \$68 billion.

The growth of automobile ownership and of a road network had a massive effect on the shape of J.S. cities, a subject we will discuss in Chapter 5. The effect on the American urban system was a bit more modest, probably because so much of that system had already filled out. But the impacts can indeed be seen at several scales. At the national scale the road network was built more equitably, helping to provide access to areas that had been side-ned during the National Railroad Era. Cities in the South and West grew as they were brought into the system. Previously isolated places, like in Appalachia, were able to finally be brought into the national fold.

At a smaller scale, centain regions benefited greatly from the expansion of automobile produc-

tion. As the auto industry expanded and consolidated, particular areas of the country were affected. South ern Michigan became the place where most of the auto companies converged, and Detroit went from a modest port to the country's fourth, argest city. Other places benefited because they provided the components needed by automobiles—frems such as steel, plastic, lead, copper, chrome, glass, rubber, textiles, machine tools, and ball bearings. Akron, Ohio grew rich because of its focus on tires. The shift to cars also affected the demand for certain resources, especially petroleum. This had an impact on the fortunes of cities near oil fields, such as Houston.

Finally, automobile transportation had a major. effect on othes at the more local scales. As we will show in Chapter 5, automobile use tended to underout many central city advantages and give rise to more spread-out suburbs. Certainly, it has made what

BOX 3.4 The Interstate Highway System

It is hard to isnagine a public works project on the scale of the interstate highway system being built today Before its formal authorization in 1956, there had been several highway bills passed, and the development of a gasoline tax to help pay for new and improved roads. But the Federal Aid Highway Act of 1956 and the companion Highway Revenue Act of 1956 were stunning in their audacity. Here was a highway bill that proposed to develop a system that was 41 000 miles long and which would meet the traffic demands for 1975-20 years in the future! What is more, the funding was laid out to last at least until the late 1960s. and the federal government agreed to pack up 90 percent of the tab! States and cities stood to gain a great deal by opting into this program.

The success of the interstate highway bill was evident in the pace of construction. As Figure B3.4 alustrates, large swaths of the system were already completed by 1970. only 14 years after the authorization. By 1990, the system was complete. The ability of the governments to construct these roads so quickly had to do with the widespread use of eminent domain, discussed in Chapter 8, and a envumiention of most public input. How well these highways worked as intended is evidenced by the extent to which they increased accessibility to a whole bost of communities underserved by traditional redroad lines, quickened the movement of Americans towards automobile use, and profoundly changed American contmoting habits. Lost in our discussions of the project is just how massive this was. One author described this as the "last New Deal Program and the first space program" that not only fied the country together but became an almost secred symbol of American might, technology, and ingenuity (Patton, 1986, 85).

As the progress of highway building motored on, there were some people who were less sanguine about its effects. Interstate highways were promoted as a way to speed travel. between cities, and also to expedite the evacuation of people in case of military attack. Bir when it was being proposed, its impact was only damly perceived; reportedly President Eisenhower himself---for whom the system as named-was perturbed to witness the demolition of cities to make way for new highway construction. Indeed many neighborhoods were either aplit apart or bulklozed over entirely Poorer peighborhoods, with less political clout, bore the brunt of these decisions. There was enough political opposition to some of the more egregious projects, which would have sliced up the historic cores of San Francisco and Boston, to prevent them from happening

Stall, the interstate highway system has imequivocally transformed the United States. Many may bemoun its effects on cities and its capacity to stretch out suburbia, but they would be hard pressed to unagine an era when travel took about twice the time, roads were far more bazardous, and shipping could be prohibitively expensive and excruciatingly slow. The interstate highway system. has created a far more integrated and mobile nation.

would have been a dominant central city surrounded by small, owns into a much more integrated urban. region. Many of the smaller towns within these urban regions have assumed characteristics of central cities themselves.

The other part of Borchert's final era is the advent of air transportation. Many of the long-distance functions offered by passenger trains were taken over by airplanes once these became commercially viable in the 1950s. Generally, the largest metropolitan areas acted as principal air hubs, forming an early air passenger hierarchy. This hierarchy was

dominated in 1960 by New York, Chicago, and Los Angeles, the three largest metropolitan areas, followed by Boston, Detroit, Philadelphia, Pittsburgh, and San Francisco (Box 3.5). Increased air transportation contributed to the growing affluence of the U.S. middle class after World War II (1941-1945) and especially to expansion of the consumer service economy (e.g., fast-food restaurants, hotel services). Business traver became more important, and economical air travel helped to spur the growth of leisure destinations. It is hard to magine Las Vegas becoming as important a destination

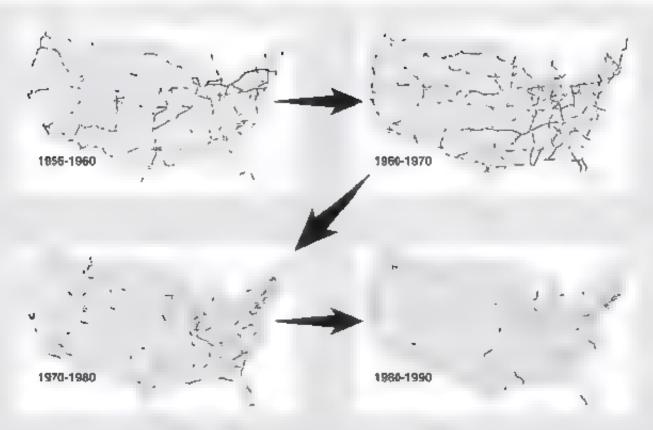


Figure B3.4 Maps showing changes in the interstate highway system for each decade. Source, Based on Moon, H. 1994

without the availability of convenient air access and cheap fares.

WRAPPING UP

The United States is a relatively new country, but it has established a formidable urban system, possibly the most complex in the world. The Amencan urban system is also a good piace to test how particular models of urbanization have been implemented in a real place. In this chapter we examine three such models. The first examines urbanization from the standpoint of the rank-size relationship. In this regard, the U.S. arban system reflects a relatively even urban blerarchy, which points to a balanced arban growth and economic development. What is more, the U.S. rank size relationship had been steady over its history, with no city overly dominating the others

The second model looks at the development of U.S. urbanization as mercantile cities. This perspective helps us understand exactly how colonial cries develop from their initial status as outposts to a

BOX 3.5 Technology and Urban Geography

THE HUB-AND-SPOKE SYSTEM AND THE EMBRGENCE OF AN AJRPORT HIERARCHY

A principal feature that defines a city's place in the urbanhierarchy is the size and importance of its airport. Airports serve as an economic engine for urban areas, creating a need for hotels, restaurants, warehouses, and offices-often located in close proximity to the airport itself. Within its own foculty, a major surport by dself generator a lot of revenue, both from the airlines and from the space in the airport itself used by concessionaires. And a major airport is the very embodiment of accessibility. Cities that are we'll served by major autines are truly "closer" to the rest of the world than caties that lack air earriers.

For these reasons, the development of the hub-and-spoke system represents a major milestone in arriage traves. Until the late 1970s, most air travel was point to point. Airlines would send flights out from one city to another Regulations meant that prices and routes were much more fixed. In 1978, with deregulation of the

ndustry, airlines began to employ the hub-and-spoke system. Certain imports became the hubs for each airme, and passengers going to these hubs could then take another flight to get to the destination they desired (Figure B3.5).

The emergence of the hub-and-spoke system accomplished three major things. First, it meant that it became increasingly difficult to get a nonstop fligh, unless flying hetween larger cities. Most flights required a transfer in a hub airport. Second, it meant many fewer half-full flights. Using capacity software and overbooking, airlines have been effective in matching the size of the airplane to the number of passengers. Third, airports and the cities they are part of have much at stake in being a "hub" for a major. airline, since it improves their accessibility and their status. A study conducted by Andrew Goetz in the 1990s confirmed that those orties that enjoyed a higher volume of air. traffic were also more thely to exhibit both preyious and subsequent growth in population and employment opportunities.



Figure B3.5 A sample hab and spoke system for SkyWest Air nes. Larger arrives have multiple habs Source Authors.

situation where the interior of the colony becomes itself urbanized, with a hierarchy of cities established throughout. By the time it had emerged as an independent country, the United States was well on the way to occupying all of its and with farms, towns, and cities. Continued westward expansion brought new land to the fold, and the United States became a leader in developing the kind of transportation technologies needed to knit the vast expanses of the new nation together. The third model examines the various transportation epochs of the United States, beginning with the canal era, through the railroad era up to the modern era of cars and airplanes. These epochs help as to understand better the changes in the distribution of U.S. cities and the origoing development of the American urban system.



GLOBALIZATION AND THE URBAN SYSTEM

"Globalization" is a big problem in every sense of the term.

-PETER DICKEN, 2004, p. 5

The purpose of this chapter is to introduce the relationship between globalization and cities. There are two main approaches to this question. First, globalization has led to the emergence of enormously powerful and influential cities that serve special roles in coordinating and managing the global economy. These cities are known as "world cities," and/or "giobal cities" which are not necessarily the largest cities in population. Instead, these cities are the command and control points from which the increasingly interconnected and complex global economy is managed. Telecommunications links are the information base allowing these cities to carry out their functions. These cities are headquarters to giant corporations that act globally and manage control of the world economy A closely related set of efforts conceives of a hierarchically structured global urban system. and attempts to understand the hierarchy's structure and function. A key part of this effort is the classification of cities into ranks in the global hierarchy. A second approach sees globalization as pervasive and affecting cities everywhere. Instead of focusing on the cities at the top of the hierarchy, as the first approach tends to do, this second approach tries to understand the impact of giobalization in multiple arenas (i.e., not just economics), facluding polities, society, culture and environment, on all kinds of cities. Before exploring these themes in greater detail, we address the root of the issue—globalization, especially its economic dimensions.

Let us begin by asking, what is globalization? Globalization for most geographers refers to a set of economic changes that began in the mid-1970s related to the movement of capital, information, goods and services. Globalization is a much-debated and complex notion that has been extended to political, social, and cultural realms. To simplify our discussion for the moment, we will focus on the economic realm—and on interconnections in particular Globalization refers primarily to the ways in which piaces are increasingly interconnected, and involves considerations of the extent, intensity, and speed of global connections, along with their impacts.

Most of the research on globalization has examined the nature of the global economy. While capitalism has long had global reach and the history of human society includes plenty of world cities as heads of empires, the last four decades reflect something new, in part because of the aftered role of nation states vis-à vis multinational and transnational corporations. Globalization reflects (1) the geographic reorganization of industrial production and service provision, especially capital availability and financial services, in a pattern that spatially disperses routine functions while concentrating in cities high-level specialized functions, (2) the interpenetration of corporations across national boundaries (companies producing and distributing goods and services

in many countries), sometimes to the extent where some corporations no longer "belong" to a single nation-state; (3) the internal movement of people within developing countries to large eities, and the immigration of people from developing economies to the United States, Canada, and Western Europe.

CAPITALISM, POWER, AND WORLD CITIES.

The engine that drives economic globalization is capitalism, especially as articulated throughout the network and hierarchy of world cities. Humans evolved m highly localized settings, tobes, and communities. Even when human settlements became large enough to be termed cities or urban areas, their focus was local. Capitalism is a distinct economic and social organization in which labor (the factory or industrial worker is separated from ownership of the means of production and the manufactured product itself, as physical work is transformed into a product that the owner sells in a market, while the worker is paid a wage. Capitalism has existed in the West since the sixteenth century, when firms located in different nation-states engaged in trade.

As capitalism grew and as countries or nationstates were established, these sovereign or indepen-Jent political units engaged in economic relations with one another. Often the basis for this international trade was the extraction of raw materials immerals and agricultural commodities) from developing countries and their importation to the more economically advanced countries or nation-states The advanced economies, the principal producers of manufactured goods, would then export these industrial goods to countries in the less developed world These were inter national rather than global relationships, such as international trade, international diplomacy, and even world wars.

Globalization has taken place, at first gradually and now at a quickened pace, only within the last 40 years or so of human history. Only since the late. twentieth century has the world economy become globally interconnected enough to deserve the labelof "global." With the new information economy operating in the age of telecommunications, the planetary urban system now operates as a single economic unit. This concept of the world as a single economic unit provides the core definition and understanding of the process of globalization.

In the geographic context of the emergence of world cities, we have seen the transformations of existing cities. Most cities through the nineteenth and into the twentieth centuries were relatively autonomous and served primarily local, regional, and, in a few cases such as New York. Paris, and London, not onal markets. London's "national" market included a far-flung colonial empire, but the basis of that empire was the nation-state. Now, a larger number of mature world cities function as a hierarchical. network to form a single world economic anit.

Huge and complex capitalist multinational and transnational corporations (Figure 4.1) are the glue holding globalization together Multinational



Figure 4.1 Headquarters of a major multinational corporation

corporations have many activities and concerns located in multiple nation-states, but remain fundamentally attached to a "home" nation-state Transnational corporations are fundamentally unattached to a single nation state, and thus are freer to pursue global strategies that may conflict with the interests of nation-states. Also in this geographic context is the division of the global economy (and therefore world caties) into core, semi-periphery, and periphery relationships. As we discuss below, the core world cities act as the dominant producers of high-order information for export, and serve as the command and control (management) points of the power-based capitalist global economy. Semi-periphery cities are moving toward world city status as their economies continue to mature and prosper. The peripheral cities are the "controlled" or managed cities and operate economically on the margins or periphery (edge) of the global economy Examples of core cities are, of course, New York, Tokyo, and London. Semi-periphery cities include Hong Kong, São Paalo, Seoul, and Singapore Peripheral cities include Auckland New Zealand; Lagos, Nigeria; Lima, Peru, Liverpool, United Kingdom, Chennai, India, Novosibirsk, Russia, and St. Louis, United States.

With the growth of large mu tinational and transpational corporations, the term "globalization" has come to replace "internationalization" as a feature of today's economic, cultural, and political environment. National boundaries have become less stgnificant in many parts of the world. Transnational corporations are the movers and shakers of the moderr global economy. Money surges from country to country as if national boundaries do not exist

HIERARCHY, CITY, AND NETWORK

Transnational and multipational corporations have thus in many ways freed themselves from operations. within a single country and have established a global network of industrial production, service provision, and distribution. World cities serve as the places where these mulanational corporations locate their management headquarters. From these headquarters, these grant corporations exercise the command and control of their global operations. Through the concentrated telecommunications infrastructure in these select world cities, the multinationals coordinate their tar flung enterprises. They draw upon a wide network of financial services and other producer services, such as advertising, marketing, legal assistance, and cyberspace maintenance and aid. A small number of world cities are the functional and operational godes. of the contemporary global economy. Whereas many areas in Africa, Asia, and Latin America are not much more global than they were 100 years ago and largely tack true or mature world crues, the mutanational corporations have nevertheless reached out to these areas for low-cost labor to produce many inexpensive items enjoyed and purchased by consumers in the developed world.

The World City Hierarchy

Where are these world cities located? One interpretation that really began research into these topics, proposed by John Friedmann (1986), is the world city hypothesis. The world city hypothesis is about the spatial organization of the new international division of labor (p. 69). By the new international division of labor (NoDL), Friedmann meant the separation of management, financial, and production (labor) functions, that is, the division of the capitalist world economy into specialized roles occurring in different locations, Fundamenta...y, parts of the production process that do not require sk... or creativity, and that are conducted in large enough quantities, can seek out locations around the globe where workers can be hired with very low pay. almost always in the periphery or semi-periphery. Examples over the last several decades include Mexico and China. Since labor costs and regulatory requirements are a large share of total production costs for mature products, the process can be divided and spread around the globe-spatially dispersing the various bits of the process in search of the lowest dost and least regulated locations. Because the production process has been divided and spread out giobally, however, corporations require much more

Table 4.1 Friedmann's World City Hierarchy, 1986^a

Cure	Copatries	Semiperip	head Countries
Primary	Secondary	Primary	Secondary
Chicaga	Brussels	São Paulo	Bangkok
Frankfurt	Houston	Singapora	Buctos Aires
London	Madrid		Caracas
Los Angeles	Miami		Hong Kong
New York	San Francisco		Johannesburg
Ports	Sydney		Marusa
Rotterdam	Toronto		Mexico City
Toleyo	Vienna		Rio de Janeiro
Zurich			Scoul
			Tarper

Source Friedmans, John, 1986, p. 72. Reprinted with permission of John Wiley & Sons, Inc. *Cross are asted alphabetically

sophisticated abilities to manage and coordinate the production pricess

A key part of Friedmann's argument is the world city hierarchy a ranking of major cities that function as world cities (Table 4.1). Friedmann divided world cities into (1) cities in the capitalist world's core or heartland developed economies, such as the United States, Canada, Western Europe, Japan, Australia, and New Zealand) and (2) those in the semi-periphery, that is, developing economies such as Mexico and Brazil. He further divided these two categories into primary and secondary world cities. Friedmann identified nine world cities.

in the primary core three U.S. cities (New York, Los Angeles, and Chicago), five Western European cities (London, Paris, Frankfurt, Rotterdam, and Zurich), and Tokyo, Japan. He also listed nine secondary core world cities, three in the United States (Sun Francisco, Miami, and Houston), four in Western Europe, and one each in Australia (Sydney) and Canada (Toronto). Of the semi-peripheral world cities, only São Paulo and Singapore were included in the primary designation. The secondary semi-peripheral world cities consisted of five Asian centers, three Latin American cities and one African city (Johannesburg, South Africa)

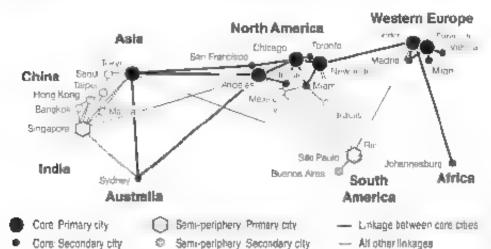


Figure 4.2 The Interactly of world et es, 1986 Source Friedmann, John, 1986.

Friedmann's .986 map of the world city hierarchy, reproduced as Figure 4.2, does not exactly correspond to his listing in Table 4.1, but it is instructive in that it reflects a more detailed break down of he hierarchy and shows linkages among selected world cities. Figure 4.2 depicts, from west to east (left to right), Tokyo, Los Angeles, Chicago, New York, London, and Paris as the six world cities at the top of the therarchy. At the next level of the hierarchy, again glancing at the figure from left to right, are Sydney, San Francisco, Houston, Miami, Toronto, Madrid, Milan, Vicona, and Johannesburg as core secondary world cities, The figure also shows two other hierarchy levels. (1, primary semi-peripheral cities, and (2) secondary semi-peripheral cities. Linkages among core world cities are shown in the thack lines.

It is interesting to compare Friedmann's world city hierarchy with the more contemporary hierarchy isted in Table 4.2. Several East Asian and certain Latin American cities have increased in rank since the 1980s, as have some European centers. Of special interest are the enhanced positions of the Chinese cities of Beijing, Shanghai, and Guanzhou, as we as the Japanese city of Osaka. Also notable is the rise at rank of Hong Kong, Singapore, Mexico City, Seoul, São Paulo, Osaka, and Beijing, as well as Istanbul, Shanghai. Bogotá, Jakarta, Berlin, Dallas, Melbourne, Santiago, Dublin, Lisbon, Guangzhou, Athens, and Rome

Figure 4.3 shows the world city hierarchy among the top 50 cities based on the number of corporate headquarters and first-level subsidiaries of the 100 largest multinational firms (Godfrey and

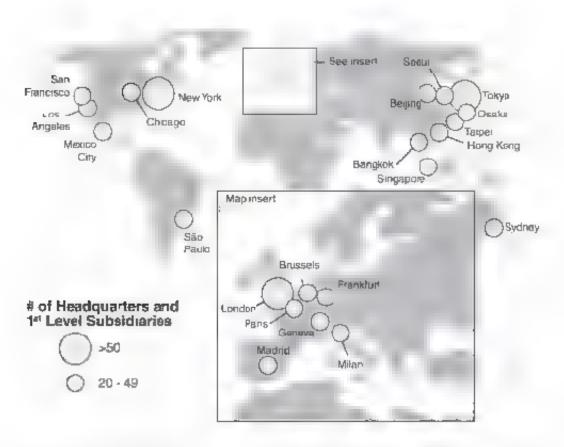


Figure 4.3 World cities with 20 or more corporate headquarters and first level subsidiaries of the 100 largest multinational firms. Source: Modified from Godfrey, B.J. and Y. Zhou. 1999.

Zhou, 1999). With more than 50 headquarters and first-order subadianes, New York, Tokyo, and London stand out as the top three world cities. Secondranked world cities are found in Europe (19), East and Southeast Asia (13), Latin America (8), the United States and Canada (7), and Australia (2) (Table 4.2). Thus, since the 1980s second-ranked world cities have developed an important presence in Europe, the United States and Canada, as welas in a growing number of countries in East and Southeast Asia. Africa has no world city, not even Johannesburg, as defined based on headquarters and birst-level subsidiaries, ocations.

Since the 1970s, when Friedmann first noted their existence, world cities have changed some of their important economic functions, as we will highlight throughout the chapter. Then, and now, however world cities have continued to perform the following: multiple roles

- Centers of national and international tourism, commod ity trade, and foreign investment
- Centers of commercial banking, investment banking. nsurance, and other financial services
- Centers of political power at the national and internations, levels and the locations of many nonprofit inshititions, associations, and organizations related to government

Table 4.2 The 50 Top Ranked World Cities by Headquarters and First Level Subsidiary Locations among the World's 100 Largest Corporations

Runk	World City	Number of Headquarters and First- Level Subsidiaries	Rank	World Cav	Number of Headquarters and First- Level Substationes
1	New York USA	69	24	Caracas Venezuela	18
2	Токуо, Јарал	66	24	Istanbul, Turkey	18
3	London, UK	50	24	Toronto, Canada	18
4	Hong Kong. China	40	28	Dusselburf, Germany	17
ጘ	Singapore	35	79	Shanghai, China	17
6	M.lan, Italy	30	30	Vienna, Austria	16
7	Paris, France	29	31	Bogotá, Colombia	15
B	Meuco City, Meuco	28	31	Jakarta, Indonesia	15
뵑	Madrid, Spam	28	3.1	Manda, Philippines	15
10	Seoul Korea	26	34	Berlin, Germany	14
11	São Paulo, Brazil	25	34	Houston, USA	14
11	Zartch, Switzerland	25	34	Me-hourne, Australia	14
13	Osaka, Japan	24	38	Panama City, Panama	13
14	Beij og, China	23	38	Santiago, Chile	13
15	Bangkok, Thuland	22	40	Dubhn, Ireland	12
15	Brussels, Belgium	22	42	Atheus, Creece	11
15	Chicago, USA	22	42	Da.lax. USA	11
15	Frankfurt, Germany	22	42	Rome. Italy	11
15	Sydney, Australia	22	45	Barceloni, Spain	10
30	San Francisco, USA	21	45	Budapest, Hungary	10
21	Los Angeles, USA	20	45	Guangzhou, China	10
21	Taipei, Tarwan	20	45	Hamburg Germany	10
23	Buenos Aires, Argentina	19	45	Kuala Lumpur, Malaysia	10
24	Amsterdam. The Netherlands	18	45	Rio de Janeiro, Brazil	10

Source Godfrey, B. J. and Y. Zhou, 1999, p. 276.

- Centers of consumption of specialized luxury goods by the wealthy external of mass-produced goods consumption by the middle and lower classes
- Centers of advanced professional services in such areas as medicine law, higher education, and the application of scientific knowledge and technology
- Centers of high-order information production and export (diffusion) of this knowledge (often proprietary promation, data, and reports) to individuals as well as to selected institutions, governments, and major corporations
- Centers of a concentration of large corporations and associated advanced producer and business services, aggiomerating in these centers for mutual benefits.
- Centers of culture, arts, entertainment, and clothing and other designs

These above activities, then, characterized world cities of the 1970s as well as today, representing a kind of historical inertia. Historical mertia suggests samply that most of the important economic functions of world cities have not changed too much. Having gotten a head start on other cities, these world cities have been able to maintain their primary activities at a high level of competition over other cities.

One dominant function of world cities today, however, has been added. At the same time, one paramount activity of world cities of the 1970s has been largely lost. The added new function and the lost activity are related at the global level (1) the use in the informationalization of the world economy, especially in advanced services, as articulated through the world city network and hierarchy, and (2) the decline in manufacturing jobs in the leading world extres. Informationalization involves telecommunications based interconnective ities that we discuss later in this chapter Because world cities marage the capitalist world economy, they require the rapid, high volume, and secure transfer of information and data. The growth in international investment of the multipational corporations and the need to finance and service these titome firms have also led to increased demand for informationalization.

At the same time that world cities took on the added function of information production and dissemination, however, they became less important in the production of manufactured goods. The United

States and Canada, as well as the industrialized world of Western Europe, Japan, and Australia and New Zealand, have massively lost jobs an manufacturing since the 1970s. This process, known as deindustrialization, results in large employment losses in local manufacturing in world cities. Deindustrialization in the developed countries occurs when lower-cost locations in the developing regions become more competitive, usually because of substantially lower wage rates and land costs. In addition, markets for manufacturing goods may become saturated, for example, how many dishwashers does a typical household need?

The result is that the industrial-based world cities have eroded at the same time that their high-order, information rich economic functions have grown enormously. The relatively modest-paying industrial jobs have been replaced by much higher paying informationalization-based employment. These specialized cyberspace-related jobs require much higher evels of education and expertise, thus attracting to these world cities smart and talented people from surrounding regions but also people from all amund the world, most of whom receive their higher education in colleges in world cities and/or in universities in the United States, Canada, and the United Kingdom. More routine information-based tasks may take place via telecommunications in developing economies such as India. As industrial jobs are lost, the low-skilled workers may be forced into the lowest paid jobs in consumer services and retailing

The Global City

According to Saskia Sassen (1991). New York, London, and Tokyo are the three global cities at the top of the hierarchy. While she draws from Friedmann's world city hierarchy, she focuses on the Lapi alist logic centered in very large powerful cities that holds the new globalized system together Like Friedmann, she argues that the spalial dispersal of economic activities requires global integration in order to function. Cities serve as points of articulation for subnational, national, and regional economies, as well as points of control over the global economy. Advanced services provided to corporations—producer services—are needed to

manage the global space of flows. She also argues that the global economy has become intensely financialized because ever-more complex financial transactions are necessary to maintain the system Sassen focuses her attention on the set of advanced producer and financial services that multipational and transnational corporations require in order to exert command and control functions, noting that most of these services are increasingly provided by separate companies rather than divisions within the large corporations. She argues that the agglomeration of the functions and the firms that provide these services can operate in only a few select places—they are subject to strong agglomeration economies (economic savings that based on the similar functions locating close together in real geographic space; see Chapter 6). New York and London are clearly examples of these kinds of places. Toxyo sinfluence at the time of Sassen's work was rapidly rising, but has wanted a bit since

A Network of World Cities

Peter Taylor developed a strong research center focused on cities and globalization (the Globalization and World Cities [GaWC] Research Network at Loughborough University in the United Kingdom) He drew from Friedmann's notion of a world city hierarchy and Sassen's insights into the importance of producer and financial services in managing the globa, economy, but argued that they paid insufficient attention to the actual existing connections between cities implied in previous work. In essence, he argued that we should be looking at networks of world cities, rather than a rigid hierarchy of world cities (Eriedmann) or a set of uniquely important and powerful global cities (Sassen). The GaWC, therefore, set out to develop and interpret new measures of the interconnectedness of cities in the glabal system.

One way to view world cities is through the degree of power they exhibit through global networks. A significant degree of this power is based on the level of connectivity of a given center to the entire network of major world cities. Power is expressed both as internal characteristic of cities as well as the city's position or rank on the world urban interlocking network. Taylor et al. (2001) provided four different measures of

power among the leading world cities. highly connected cities, dominant centers, command centers, and gateway centers (Table 4.3)

Taylor classified ten cities as highly connected. In addition to the top three world cities of New York, London, and Tokyo (Sassen, 1991) are the North American urban areas of Chicago. Los Angeles, and Toronto. European centers include Milan and Paris. Asian cities that are highly connected with the world city network are Hong Kong and Singapore Only seven cities are considered dominant centers, all also highly connected centers, with the audition of Frankiurt, Germany

Command centers number eleven. These are cities that have world or regiona headquarters of major transnational corporations, especially the .00 largest global service firms. Regional office headquarters now play an increasingly important role in critical decision making, as their knowledge of local and regional conditions are more extensive than the more remote and often "less informed" world headquarters

Finally, highly connected gateway cities typically are not domain centers or command cities. These cities serve important national economies, as for example São Paulo, Brazil: Mexico City, Mexico, and Melbourne and Sydney, Australia.

GaWC researchers examined changes in the network connectivity of major global cities between 2000 and 2008 (DeRudder et al., 2010). Their measure is based on city by firm data for companies providing advanced producer services (APS) in multiple cities. Cities score highly when more globally oriented firms operate offices-a city would receive the maximum score if every firm in the sample operates an office. Table 4.4 indicates the op 25 most connected cities in each year (plus the cities that joined and left the top-25 list, for comparative purposes) The most sallent characterisac to note is that the crues we have already discussed as major global cities are present at the top of this list in both years. We see that Hong Kong is third in both years, and other Asian. cities have risen, including Singapore, Shanghai, Beijung, and Scoul. All North American cities, except for New York, fell in their enancetivity to the world cities network. These trends illustrate the growing

Table 4.3 Measures of Powerful World Cities

Cutes	Highty Connected	Dominant Centers	Command Centers	Gateway Centers
Amsterdam			X	
Brussels			X	
Boston			X	
Buenos Aares				λ
Chicago	X	X	X	
Frankfurt		X	X	
Hing Kneg	Y	X		X
Jakaria				X
Kaala Lampur				X
Loadon	X	x	X	
Los Angeles	X			
Madrid				X
Melhourne				X
Mexico City				X
Mami				X
M an	X			X
Mumbai				X
New York	X	X	X	
Paris	X	X	X	
São Paulo				X
Singapore	3.		X	X
Sydney				X
Тация				ĸ
Tokyo	X	X	X	
Washington, D.C.	X			X
Zanch			X	

Source Taylor P.J., D.R. F. Walker G. Cataiano and M. Haylor 2001.

importance of Asian cities within the global economy based on their provision of advanced producer services. Note that the 2008 data were collected prior to the global financial meltdown and recession.

Even though the GaWC creates a hierarchica, listing of cities, classified based on their role and importance to the network, they also strive to illustrate the natures of flows. Figure 4.4 illustrates the networks that stretch between α (alpha) eitres, which are the top-ranked cities in their scheme.

Black Holes and Loose Connections John Short (2004) described black holes and loose connections in the global urban network. He defines black holes as cities with a population of more than three million that are not classified as world cities.

The concept of loose connections refers to cities whose connectivity is less than expected by their population size. The non-world city status of black holes (Table 4.5) reflects high levels of poverty, an indication of a limited market and an insufficient number of affluent consumers to support advanced producer services. Not only are these black hole cities themselves poor, but also the countries in which they are located are among the poorest countries in the world. Moreover, Khartoum and Kinshasa have experienced recent social unrest and anarchy in addition, national ideologies have not encouraged advanced capitalist economies in the case of Tehran, Iran, and Pyongyang, North Korea.

The ten cities listed in Table 4.6 have the low est degree of connectivity with the global urban

Table 4.4 The 20 Mi st Connected Cines in the World City Network, 2000 and 2008

	2000			2008	
1	London	100.00		NewYork	446.00
2	New York	97 10	2	London	99 32
3	Hong Kong	73.08	3	Hong Kong	83.41
4	Tokyo	70.64	4	Paris	79 68
5	Paro	69.72	5	Singapore	76.15
6	Singapore	66.61	6	Tokyo	73.62
7	Chacago	61 18	7	Sydney	70.93
N .	Milan	60.44	B	Shanghai	69.06
9	Madrid	59.23	9	Milan	69.05
10	Los Augeles	58.75	(0)	Beijing	67.65
I.I.	Sydney	58.06	11	Madrid	65.95
12	Frankfort	57.53	12	Moscow	64 85
13	Amsterdam	57.10	13	Brassels	63.63
14	Torregio	56.92	14	Seoul	62 74
15	Brussels	56.51	1.5	Toronto	62.38
16	São Paulo	54.26	16	Buenos Atres	60.62
17	San Francisco	50.43	17	Mumbai	59.48
18	Zorick	+8.42	18	Kuala Lumpar	58.44
19	Taiper	48.22	19	Chicago	57.57
20	Julearta	47 92	20	Taiper	56.07
72	Buenos Aires	46.81	21	São Paulo	55.96
23	Murabay	46.81	22	2urich	55.51
27	Shanghai	43 95	25	Amsterdam	54.60
28	Kuala Lumpur	43.53	28	Jakorta	53 29
1g	Hearing	43.43	31	Frankfurt	51.58
3()	Scou.	42.32	40	Los Angeles	45.18
7.7	Merse se	40.76	48	San Francisco	4 35

Source Derudder B et al. 2010.

network of all large cities in the world, compared to their populations. The least connected cities are Calcutta, Lagos, and Karachi, extremely large cities in extremely poor countries. The Ukraine economy has recently collapsed and Pittsburgh, perhaps a surprise inclusion, has experienced severe deindustrialization.

U.S. Law Firms in World Cities The United States has become known as a litigious society, which the dictionary defines as quarrelsome individuals or groups given to carrying out lawsuits. The media are full of examples of outrageous

lawsants over trivial matters, It is no wonder that the United States has more lawyers by far than any other country. In addition, many U.S. law firms are hage and several operate globally, providing services to multinational corporations. For example, the world's largest law firm—Baker and McKenzie, headquartered in Chicago—bills themselves as "The Global Law Firm." Similarly, White and Chase, originating in New York, publicly declare themselves a "Global Law Firm."

U.S. law firms concentrate their offices outside the United States in eight principal world cities (Table 4.7). We should not be surprised to see that

The World of α (alpha) Cities (According to GaWC), 2010.



GaWC Globalization and World Edias Research Network Department of Geography Loughborough Univ (UK)

Figure 4.4 Connections between atpha cates as cassified by the Glehalization and World Cities (GaWC) Research Network, 2010. Source: Madified from Carta, Silvio and Marta González, 20-2

Hong Kong ranks second in number of foreign offices of U.S. law firms, outranking even Tokyo, Allthe Asian world cities are primary financial centers. requiring high-level legal services. Hong Kong is east y accessible to U.S. legal services, in contrast to the much more restricted and closed Japanese legal system. Four of the world cities with offices of U.S.-based law firms are located in Western Europe. The demise of the Soviet Union has resulted in

Table 4.5 Black Holes in the Global Network of Cities

		Population
City .	Country	(in multions)
Tehran	Iran	10.7
Dhaka	Bangladesh	9.9
Khartoum	Sudan	7.3
Kinshasa	Congo	6.5
Labore	Pakiston	6.5
Baghdad	Eraq	4.9
Rangoon	Myanmar	4.7
Algiers	Algena	39
Abidjun	Ivory Coast	3.8
Pyongyang	North Knort	3.6
Chitiagong	Ban _k adesh	3.1

Source: Short, John, 2004, p. 297.

U.S. law firms concentrating in Moscow during the lengthy and fitful transition to a market economy The eight world cities shown in Table 4.7 represent the locations of more than half of the foreign offices of U.S headquartered law firms. This is indeed a highly bunched pattern Moreover, these firms consist of exceptionally talented attorneys who deal with extremely complicated issues involving the multinational legal system.

Where are the U.S. headquarters of these global law firms? They are concentrated in the largest three

Table 4.6 Loose Connections in the Globa. Network of Cities

Rank.	City	Country
1	Calcuta	India
2	Lagos	N geria
3	Karachi	Pakustan
4	Chennus	India
5	Guangzhou	China
6	Kiev	Ukraine
7	Rao de Janearo	Brazil
8	Pittsburgh	USA
9	Casabianca	Moroce
10	Lama	Paru

Source: Short, John, 2004, p. 300.

Table 4.7 Non. U.S. World Cities with Offices of U.S.-Headquartered Law Firms

World City	Number of U.S. Law Firms Represented
London	63
Hong Kong	36
Pana	28
Tokyo	24
Brussels	22
Moscow	17
Singapore	14
Frankfurt	12

Source Beaverstock, J. V., R. G. Smith, and P.J. Taylor. 2000.

metropolitan areas, plus Washington D C. The inclusion of the national capital is not surprising, given its fundamenta, political role. New York is the clear leader with 33 law firms with foreign offices, far ahead of second-ranked Washington, D.C. (11) and third-ranked Chicago (1B). Significantly, Los Angeies, the second largest U.S. metropolitan area, has only seven firms with foreign offices, fewer than Chicago. This reflects the fact that Chicago has occupred a high rank within the U.S. urban hierarchy for a much longer period of time than Los Angeles has.

World Cities and Wealth Since world cities are magnets for the wealthy (b..l.onaires) and their business and financial activities, one wonders, at the same time, if world cities tend to somehow polarize employment opportunities such that these cities also have a disproportionate concentration of the very poor, the unemployed, and the homeless. What exactly is the connection, if any, between a city's position in the world city hierarchy and the social well-being of its annabitants?

One widely held argument is that at the same time world cities have attracted high-paying professional and advanced service occupations, they have also experienced an increase in low-paying jobs, uneinployment, and homelessness. Thus the rich and the poor coexist in world cities. The same city in which corporate executives are chauffeured in limousines containing all sorts of sophisticated telecommunication devices to offices in modern buildings will also be home to homeless people sleeping in makeshift cardboard boxes on the succeals or low-income employees walking to work in the inner city. The haves and the have-nots are both packed in the same city space, but they exist in slightly different locations and in very different social, economic, and political conditions.

This bifurcated or polarized employment picture, then, results from the changed economic functions of world eities and emerging world cities, and the different locations of production-oriented employment centers compared to high-level telecommunications and management centers. While the underemployed and unemployed grow and accumulate in numbers in world cities, so too do the highly educated and technically skilled workers. Many of these skilled workers are attracted from afar, often from all around the world. The source regions for these knowledgeable workers experience a brain drain, a loss of what would otherwise have been local alent. The world cities gain the fruits of highly educated, technologically advanced workers drawing lofty incomes, As Saskia Sassen (2006) has noted, global cities attract a disproportionate number of highly educated workers. in the producer services. In addition, there appears to be a worldwide preference among producer service workers for locations in cities with a democratte form of government. The developing areas lose their "best and their brightest." Polarization reigns. (Box 4.1).

INTERCONNECTIONS AMONG WORLD CITIES

Although we know that the world cities are defined by the many kinds of interconnections among them, obtaining flow data to study these interrelationships is difficult. Beyond the data collected for the GaWC project, most of the data are proprietary, highly spectalized, and idiosyncratic for individual corporate enterprises. Only in the aggregate can we obtain a complete picture of the true interconnections among world caties.

BOX 4.1 Skieled Labor Migration Among World Cities

We tynically think of a hrain drain in terms of migration from countries with developing economies to the developed countries. Sometimes these in grants move to developed countries to obtain an education. Because developed countries offer much greater financial opportunities and other amenities, these now-educated people often remain in the same country in which they obtained their education. They typically become a part of the curporate and academic communities. The result is a brain drain in which the most educated workers are drawn away from the source region to attractive metropolitan areas in developed economies. Increasingly, these magnet cities are world cities and emerging world cities.

What is far less known, however, is another kind of international migration of skilled workers from world cities to other world cities and other dominant urban centers (Figure B41). Here we take the example of London's for e.gn banking. Globalization of skilled worker migration follows the path of the globalization of financial capital.

Major London-based banks that end money in foreign locations must have personnel highly knowledgeable in sound investment practices. A London investment bank may rather trust an officer from as London headquarters to operate to Sydney or Hong Kong, for example, than a local banker. Many London bankers are eager to spend a year or two in an oversens world city out of interest in diversity and for extra financial gain.

Take another look at Figure B4.1 Taking only one example of London's many banks doing business overseas, NipponBank sends its bankers from its London headquarters to world claes and emerging world cities to perform highly skilled financial investment tasks for a one- or two-year assignment. In this particular example, Paris is the leading destination for the bankers, followed in order by New York, Tokyo, and Milan. The London-based Brithank is more criented to Asia and North Amonca, and sends bankers to Hong Kong, Singapore, Toronto, and Washington, D.C.



Figure B4.1 NipponBank's London headquarters o world cities and emerging world cities Source Beaverstock, J V and J Smith 1996

Air Travel Between World Cities

One indirect measure that has been used to determine the interconnections among world cities is air passenger flows. Among which world cities are people most akely to gavel by arrplane? Box 4.2 illustrates. an innovative application of a research method called the gravity model to understanding the connectivities of U.S. cities to the world city network. Table 4.8 shows the ranking of the top ten world cities based on air passenger travel, and ten emerging world cities These rankings emphasize the role of more "central" cities within the travel network, such as London, Pans, Amsterdam, and Frankfurt in Western Europe The more centralized cities have much heavier passenger flows to more world cities than do the more peripheral cities such as Mexico City, Miami, Seoul, and Montrea.

Table 4.8 A ranking of World Cities and Emerging World Cities Based on Air Passenger Travel

Rank	Worta Cities	Emerging Worda Cities
1	Lossen	
2	Pans	
3	New York	
4	Tokya	
5	Hong Kong	
6	Amsterdam	
7	Singapore	
0	Prunkfurt	
9	Los Angeles	
10	Chicago	
11		Mexico City
12		Zunch
13		Milano
14		Madna
15		Miain
16		Sun Francisco
17		Seou.
18		Houston
19		Boston
30		Montreal

Source, Smith, D. A. and M. F. Timbertake, 2001.

Corporations that operate globally have to decide in which cities to locate their foreign offices. Measuring the global office location strategies of advanced producer service firms provides another way to study interconnections among world cities. A 2000 study found that the three dominant world cities of New York, London, and Tokyo have nearly identical links among the leading five world cities based on intra-firm global linkages (Table 49). Clearly, these cities are at the apex of the global network and may be said to act as command and control centers.

The Tourist World City

Tourism involves not only the mass movement of people, but also the consumption of tangible goods such as food and drinks, hotel accommodations, autime fares, rental cars, cruise ships, and souvenirs. Tourism has become a major entertainment industry as more and more people are experiencing more and more leisure time and as more and more people, including retirees, have the financial resources to travel. Even business travelers, in their times of leisure, may become temporary tourists. Advertising, all the finement have touted various tourist locations—the selling of cities.

Major cities and world cities in particular are the strategic sites for the global entertainment industry. This industry requires the infrastructure provided by world cities in order to coordinate its diverse act vities. New York and Los Angeles dominate the global entertainment industry. Only in these two world cities can we find a sufficient number of adequately creative professionals such as actors, television personalities, writers, and directors to maintain the kind of quality enjertainment that can be exported worldwide. Only in these places can the entertainment industry find both the high-level technology, and the experts capable of operating this technology, to produce a high-caliber entertainment product good enough to export to eager worldwide consumers.

Two factors have played a vital tote in the growth of the international media markets: (1) technological innovations and (2) government deregulation. The globalization of the cutertamment industry has been accelerated by mergers in which grant enterprises

BOX 4.2 THE GRAVITY MODEL IN EGRAL AND REGIONAL AND GLOBAL CONTENT

The classic gravity mode has long been a workborse of arban-economic and transportation geography. It is a model that compares volume of flows or levels of spatial interaction between or among two or more places based on mass (population) and distance between the places. It looks like this.

$$I = k \frac{PP}{D^p}$$
.

where I_g is the tevel of interaction or flow volume between origin i and destination j_i b is an empirically determined exponent of distance, k is a constant, P_j is the population of destination j_k and D_g is the distance between i and j

This form of the gravity mode, has proven flexible, as other measures of mass than population may be used (such as retail sales or employment intak) just as distance may be calibrated as trivel time or dollar cost. Operationally, the gravity model typically takes the following form of the well-known regression equation.

$$\log I_{ij} = \log \kappa_i \log r \times P_i - D_{ij})$$

where the terms are as before

The gravity model has proven effective in explaining commuting flows, the journey to shop, social trips.

are buying smaller, but still large media firms. We now have a relatively small number of major media conglomerates dominating the industry. Niche markets are filled by many small, specialized companies. The grant conglomerates are able to sell a standardized product to an enlarged international market

Not only are world cities sites of tourist and other entertainment products, but these world cities have also become major consumers of the industry. Theme parks encourage customer loyalty, an area in which the Walt Disney Company has had a long tradition. Theme parks have vast shopping malls offering, for example, Disney products of all sorts. The Disney Store has long been a part of the traditional suburban shopping mall. The reach of the tourist and entertainment industries is extensive. For example,

commodity freight exchange, as we'd as nugration patterns. The model thus has widespread application and is here referenced as the local and regional gravity model.

When measuring spatial interaction at the global scale, however, the classic gravity model falls short. A modified or global gravity mode is called for. Here, in addition to population and distance, in new component must be introduced: network connectivity. The degree to which world entors are connected, especially through telecommunications, is a more important factor than population size or distance. As we saw earlier in this chapter, several large cities (Tehran, Dhuka, Khartoum, Baghdad, and Lehore, for example) were referred to as black holes, or as loose connections (Calcutta, Lagos, Karachi). All hough their populations are large, they do not function as world cities. Thus, the role of population is greatly weakened.

Likewise, distance plays essentially no role in the spatral interaction of global cities—New York, London, and Tokyo are spaced far apart and yet are strongly connected economically and would be expected to have a large voltime of air trave.

The essential and overarching feature of works extres in their close corporate and capitalist ties. The hallmark of the global gravity model is network connectivity

$$I_{ij} = \log k(\log P \times P \times \log N_i \times N_j + \log D_{ij})$$

New York City began an extensive three-decade redevelopment of Times Square, the entertainment Lore of Broadway in Manhattan, in 1980 The Walt Disney Company desired to open a Broadway theater and exerted considered political pressure on the city's government, provided considerable financing in the early years of the project, and played a crucial role in getting other entertainment companies to invest in Times Square projects. The three-decade redevelopment effort ended in 2010 with the completion of the 1. Times Square office building

New York and Los Angeles as Tourist Cities New York and Los Angeles, America's two leading global cities, rely heavily on tourism as a key component of their economies. In Los Angeles, where all terms in the equation are as identified before, except that the N_i and N_i represent the network origin and network destination, respective,

Derudder, Witlow, and Taylor (2007 p. 84) used arrive data to measure the global network effect. Specifically they attlized enplaned passengers to measure the global connectivity (network connectivity) of U.S. ethes (Table B41). A though they did not employ the gravity model, their findings showed New York. Los Angeles, Chicago, and San Francisco to be the four U.S. extres with the strongest global airline connections, with New York, London, Los Angeles, and Tokyo as the major world tourist attractions. The business and corporate connections round out the top 20 U.S. etties with global I nivages.

Table B4.1 Clobal Connectavities of U.S. Cities Based on Aigline Data

Rank	Cittes	Number of Connections in militans,		
1	New York, NY	10.6		
2	Los Angeles, CA	к 3		
3	Chicago, IL	5.7		
4	San Francisco, CA	5.3		
5	Atranta, GA	3.8		
6	Miami, FL	3.7		
7	Washington, D.C.	3.7		
8	Dall is, TX	3.7		
9	Boston, MA	3.6		
10	Hoteston, TX	2.9		
11	Denver, CO	2.5		
12	Scattle, WA	2.4		
13	Minneapous, MN	2.3		
14	Detroit, MI	2.2		
15	Philaue phia, PA	1.8		
16	San Diego, CA	1.7		
17	St. Louis, MO	1.6		
18	Portland, OR	1.4		
19	Kansas City, KS	1.3		
20	Cleresant, OH	1.1		

Source: Derudder, B., F. Wittox, and P. J. Taylor, 2007.

tourism ranks third among all industries in employment. Although tourism is a more important part of the Los Angeles economy, New York-because of its size attracts more to al tourists. Travelers are drawn to these two centers for a variety of reasons. For example, New York, the national and grobal financial and corporate center, attracts a large number of international business travelers, as well as those interested in the arts and entertainment The New York Times publishes "The Arts" section daily. Los Angeles also attracts many international business traveters, especially from Asia, as well as a substant al number of conventioneers. In fact, business traveiers and conventioneers constitute 33 percent of New York's tourists and 25 percent of altourists in Los Angeles.

Although New York and Los Angeles share many tourist features, the geography of tourism between these two centers is distinctive. In New York, as with global cities in general, tourism tends to be highly concentrated in the central area. Within the New York metropolitan area New York City accounts for about 80 percent of the tourism market, and Manhattan Island for nearly 80 percent of the New York City market Manhattan contains 93 percent of the hotels in New York City and 80 percent of the jobs in the amusement and recreation service industries. Most of the tourism market is located between 96th Sircet and lower Manhattan

In contrast, the tourist geography of Los Angeles is widely dispersed. For example, only 5 percent of overnight visitors to the metropolitan area stay in

Table 4.9 Interoffice Links among New York London and Tokyo Bused Advanced Producer Service Firms Among World Cities

New York		London		Tokyo		
Ronk	Cher	Brank	Com	Rook	Cittes	
1	I onder	- 1	New York		New York	
2	Hong Kong	2	Hong Kong	2	London	
3	Tokyo	3	Tokyo	3	Hong Kong	
4	Singapore	4	Singapore	4	Singapore	
5	Paris	5	Paris	5	Parts	
6	Frankfurt	6	Los Angeles	6	Frankfurt	
7	Los Angeles	7	Milan	7	Los Angeler	
8	Milan	8	Frankfurt	8	Milan	
9	Chicago	9	Chicago	9	Chicago	

Source: Bearerstock, J. V., R. G. Smith, and P. J. Taylor. 2000.

downtown Los Angeles In fact, the tan most popular tourist submarkets combined account for only 55 percent of the total overnight visitors. Not surprisingly. Hollywood is the most popular tourist spot in the Los Angeles metropolitan area, accounting for 25 percent of all overnight visits. The last time this author stayed in Los Angeles, he was part of that small 5 percent of downtown sleepers and he could look out his 21st-floor window and see the famous Hurrywood sign on the hill staring back at him. Beverly Hills is the second most visited area, accounting for just over 15 percent of all overnight tourist visits.

The Impact of 9/11 The September 11, 2001, terrorist attacks in New York on the twin 110-story World Trade Center towers and on the Pentagon in Washington, D.C., had devastating impacts on the United States and its cruzens. In addition to all the emotional, psychological, and social consequences, these terrorist attacks had real economic impacts on the U.S. economy. The repercussions hit hardest in the three U.S. global cities of New York, Los Angeles, and Chicago (Figure 4.5). Although the effect was immediately felt in tourism and related industries, the fallout rebounded everywhere and was felt throughout the U.S. economy, including

financial services and retailing. Many small compames and major corporations alike were hurting and were forced to lay off workers. The entire economy suffered a massive jolt.

Naturally, the greatest absolute job losses were in New York, numbering 70.000 in the most impacted industries. It is estimated that more than 15 percent of all jobs were lost in tourism, arlines and other travel, and entertainment, as well as in finance and retail combined. Los Angeles and Chicago were also seriously burt, as each city lost approximately 30,000 jobs. Las Vegas and Orlando took hard hits of 20,000 people being thrown out of work—tourist and entertainment capitals outside the global city system.

As Figure 4.5 demonstrates, however, the flattening of the economy was a nationwide phenomenon For example, Washington, D.C. loss some 20,000 jobs. The economic damage was also felt in the regional capitals of the United States: San Francisco, Seattle, Atlanta, Dallas Fort Worth, Houston, St. Louts, Minneapolis, Detroit, Boston, and Philadelphia. The injury to the economy was felt in smaller metropolitan areas, such as Salt Lake City, Nashville, Louisville, and Charlotte. No place escaped the economic compiling. Nevertheless, the three U.S. global centers took the hardest hits. Why? Because these

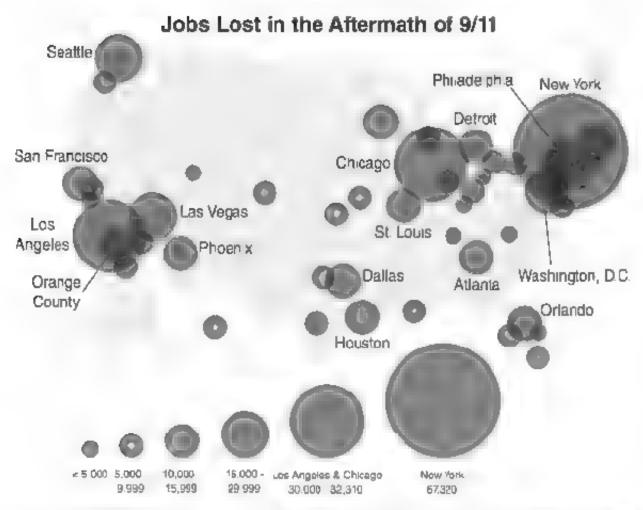


Figure 4.5. The 5 rd. 5 metropolican areas most affected by the September (1th terrorist attacks, job. cases in 2002 in the most impacted industries, aerospace, airlines, defense entertainment, finance courism, and travel. Source obnison, J. H. Jg., 2003.

three cities, especially New York and Los Angeles, are the primary places where the tourist, entertainment, and airline industries are concentrated

Telecommunications, Interconnectivity, and World Cities

This section asks what role telecommunications play in the global economy specifically whether hey have contributed to dispersal or concentration of economic and social activities, along with consequences for the global arban system. We discuss the immensely important role of communication infrastructure at both the national and global scales and across different communication technologies. Ultimately, telecommunications are of great significance to the global urban economy and to urban society, creating new urban geographies that are fractured in certain unexpected ways.

We are still in the early stage of the information age. The widespread commercial and personal use of the Internet began relatively recently in the early 1990s. The U.S. Census reported that in 2011 just under 70 percent of the U.S. population had access to the Internet (the International Telecommunication).

Union estimated that Internet penetration in the U.S. was considerably higher at 81 percent in 2012), and that over 48 percent used a smart phone to connect to the Internet. The Internet has thus drastically changed how we spend our work time, our money, and our leisure, with many more changes to come. Ce tular devices and smart phones are seemingly ubiquitous and the increasing availability everywhere of the Internet and cloud computing are revolutionizing all kinds of e-commerce and has made possible (for some) the ability to work at home (telecommuting). More than 70 percent of Americans who use the Internet now consider online technology to be their most important source of information, ranking it higher than all other media, including relevision and newspapers

Dispersal or Concentration?

Many have argued that the advent of the Internet has meant the "death of geography" In other words, where one is physically located, whether on Wall Street or in an obscure rural village in Thai and, makes no difference in accessing the Internet Thus, information based activities are increasingly being dispersed throughout the globe. Does this "distance doesn't matter" concept hold true? The answer seems to be that it is true for some smaller scale functions but not for global corporate capitalism, as discussed earlier in this chapter.

Telecommunications allows some activities to be performed from decentralized locations. For example, a reporter in the field can transmit a story to the editorial office of a newspaper located in a distant city. Another example of dispersal involves back-office activities, which are defined as office functions consisting of routine data and paper processing that follow standardized procedures. In these typically repetitive, office operations, employees work for low pay in an often monotonous environment. Back office functions can be carried out via telecommunications almost anywhere and back offices can be found in small towns and rural areas, on back streets, in small shopping centers, and even on the second floor of some convenience stores.

One widely circulated icon of the global reach of back-office operations is the Indian call center, which has attained custural meme status. The relatively low paid but often highly educated Indian workers not only allow American firms to take advantage of considerable wage differentials, but also to alleviate the problem of high turnover rates among L.S. workers.

In contrast to the dispersed activities, many other occupations and functions have become more concentrated as a result of telecommunications. On the "death of distance" debate or the question of whether internet communications lead to dispersal or concentration of economic activities. Saskia Sasker (2004, p. 196) writes.

While the new telecommunications technologies do indeed facilitate geographic dispersal of economic activities without losing system integration, they have also had the effect of strengthening the importance of central coordination and control functions for firms and, even, markets—For firms in any sector, operating a widely dispersed network of branches and afti, ates and operating in many markets has made central functions far more complicated.—Major centers have massive concentrations of state-of the art resources that allow them to maximize the benefits of telecommunications and to govern new conditions for operating globally

Front-office occupations are highly skilled, specialized, and attract well-educated, highly paid professionals in areas like legal and financial services, marketing, sales, advertising, engineering and architectural activities, and management and public relations. Front-office activities involve face-to-face communication and high-level decision making that brings together people with specialized and technical knowledge to manage data and information collected from diverse locations. These activities are concentrated in the largest metropolitan areas atop the global arban hierarchy, most often in down-town locations and in newer suburban business concentrations, sometimes known as edge cities (see Chapter 7). International air connections are vital to



Figure 4.6 Wall Street in Marhattan, the financial capital of the world.

bringing together people from many global locations for the face-to-face communications that are a part of high-level decision making within multinational corporations. Front-office activities seek out conspictious, prestigious, and prominent locations, and firms occupying these offices are willing to pay high rents or land cost. Thus, a front-office firm might select a Broadway. Fifth Avenue, or Wall Street address in Manhattan, a Peachtree address in Atlanta, a North Michigan Avenue address (and eastward toward Lake Michigan) in Chicago; or a Market Street address in San Francisco. The prestigious location is a part of the cost of advertising (Figure 4.6)

INTERNET CONNECTIVERY AND THE INTERNET BACKBONE

It seems clear, then, that the advancements in telecommunications technology and usage have concentrated knowledge-rich information in relatively few places around the world. Likewise, in the United States it is the largest metropolitan areas—with certain exceptions—that generate and receive the greatest volumes of proprietary, valuable, and technically advanced information. New York, London, and Tokyo, the three leading world cities, are therefore intensely linked in telecommunications by fiber optics and satellites, especially for their financial firms, stock markets, and largest and most spatially complex corporations. "The growth of international investment and trade and the need to finance and service such activities have fed the growth of these functions in major cities" (Sassen, 2006, p. 32) In addition, international loci, such as the United Nations building in New York, is connected with every major city and nation in the world, as well as regional centers (Figure 4.7).

Massive concentrations of grant corporations and their close ties with needed producer services in the largest cities in the world are linked by shared fiber-optic networks. Concentrating huge capitalist

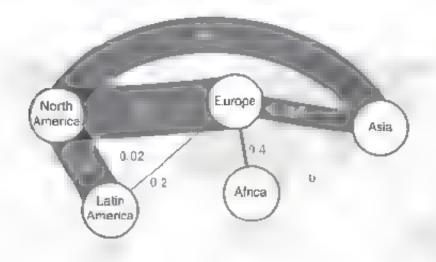


Figure 4.7 A view of the United Nations building, the tail shirty structure in the center of the photograph, as seen from the East R ver in New York City. This building is connected by interse te ecommunications with every major city and country in the world, as well as many regional centers.

firms in cities allows them to share costly fiber-optic cables, as well as facilitating face-to-face communications. The extremely expensive infrastructure investments needed to create and maintain a major telecommunications center means that only a limited number of cities in North America or worldwide will be able to fulfil, these communications functions. For example, the centralization of corporations in Manhattan allows them to access precise global information while retaining local ties to ancitary producer service firms.

Which world cities are the most connected via Internet backbone capacity? Figure 4.8 shows the regional pattern of Internet connectivity. The strongest regional ties flow between North America and Europe, followed by North America's ties with Laan America and Asia. Interestingly, Europe has more than double the Internet capacity as North

America, but much less of its capacity is used outside of Europe (77 percent of Europe's Internet capacity is used within Europe, whereas for the U.S. and Canada, only 15 percent of capacity remains in the region). When looking at Internet connections between cities, it is important to note that the Internet is structured as a hub-and-spoke system (TeleGeography 2012). Figure 4.9 displays the ten cities that are connected to the Internet with the greatest capacity, as of 2011. London ranks number one, with more than 11 terabits per second of total Internet capacity. Other significant Internet hub cities include Frankfurt, Paris, Amsterdam, and New York Each of these top five hub cities was also in the top-ten list for 2003. The remaining Internet bub cities-Miami, Stockholm, Los Angeles, Milan, and Madrid-are new to the list, replacing Brussels, Geneva, Toronto, Montreal, and Washington, D.C.



2011 Internet Bandwidth (Terabits per second)

	North America	Latin America	Europe	Africa	Asia
Between regions:	14.7	4.7	9.2	0.52	6.7
Within region.	2.1	0.7	315	0.01	29
Total:	16.8	5.4	40.7	0 53	96

Figure 4.8 interregional Internet connectivity, 2011. Source: Authors, based on data estimated from 'Cooba. Internet Map 20.2.1 TeleGeography http://www.telegeography.com,telecom-resources/map-gallery/g-obal-internet-map-2012/index-html).

Global Internet Hub Citles, Based on Total Internet Capacity, 2011

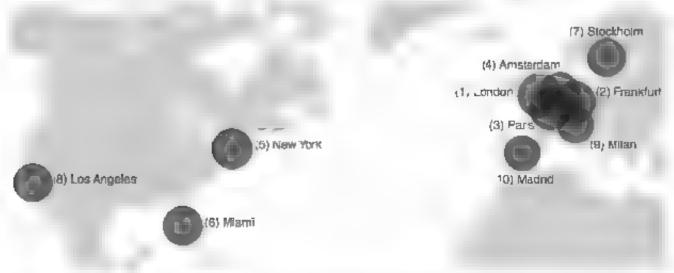


Figure 4.9 Globa. In emet hab cities, based on total Internet capacity 20.1 Circle size is proportional to total Internet capacity Source: Authors, based on data estimated from "Clobal Internet Map 2012, Interactive Version" TeleGeography http://giobal-unternet-map-2012 telegeography.com)

Significantly, despite Tokyo's world city status in banking and finance and other global measures, the city does not appear on either act. For most of the last fifteen years, the largest capacity Internet route connected New York and London, followed by that between London and Paris. The topology of the Internet has changed, however, as illustrated m (Table 4.10), which shows the top three Internet routes as of 2011 for each of the top ten Internet hub cities. The London-Amsterdam route surpassed the New York London route in 2009, and was itself surpassed by the Frankfurt Parts route in 2011 (TeleGeography 2012) What has not changed since the early 2000s is Europe's dominance of globa, internet capacity, TeleGeography (2012) reports that a majority of the top 50 Internet routes in the world connect pairs of European cities. Miami's presence on the list reflects its increasingly important role as a gateway hub to Latan America and suggests that the topology of the system will continue to be dynamic

Fiber Optics and Satellites

As Warf (2006, p. 1) pointed out, "International telecommunications traffic reases entirely on two

modes of transmission, saterates and fiber optics' to link the transatlantic and transpacific economies. Global corporations, with their diverse, complex, and specialized activities, are crucially reliant upon sophisticated communications systems. The couple of dozen saterate companies overwhelmingly dominate mass media communications. Major companies, especially financial institutions, prefer to use the 1,000 or so fiber-optic firms because of their greater security and capacity to transmit large volumes of data quickly Many enterprises and institutions use both satellites and fiber optics.

Geographically, satellites are better suited to serve remote and rural areas, as satellite transmission costs are unrelated to distance, whereas fiber-optic costs depend on the length of the fiber. Fiber-optic firms, in contrast, are well suited to large metropolitan areas where multiple chents are concentrated in order to realize scale economies or savings. New York and London, with their clustering of large corporations, including financial institutions, constitute the densest set of fiber-optic links in the world.

Fiber-optic carriers have sign ficantly increased at the expense of satellite transmissions over the past

Table 4.10 Top Internet Routes, by Capacity, for Globa, Internet Hab Cities, 2011

Grobal Hub City	Top 3 Internet Routes for Each Hub City		
() London	1 Amsterdam 2 Paris 3 New York		
(2) Frankfurt	1 Paris 2 Amsterdam 3 London		
(3) Paris	1 Frankfort 2 Landon 3 Madrid		
(4) Amsteruam	 Landon Frankfurt Paris 		
(5) New York	 Washington D.C. Landon Chicago 		
(6) Mrami	 Affanta Sao Paulo Washington, D.C. 		
(7) Stockholm	1 Copenhagen 2 Helsanc 3 Hamburg		
(8) Los Angeles	1 San Francisco 2 Dallas 3 Washington D.C.		
(9) Milan	1 Frankfurt 2 Paris 3 New York		
(.0) Madrid	1 Paris 7 London 3 Milan		

Source: *Coobal Internet Map 2012. TeleGeography (http://www.telegeography.com/assets/website/images/maps/global internet-map-2012.

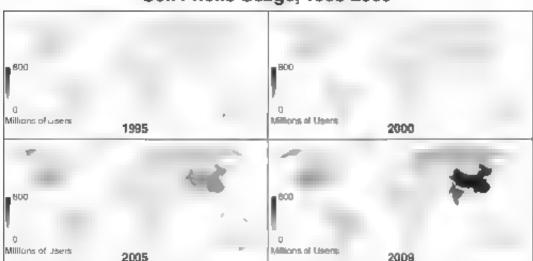
decade, both for the transatlantic and transpacific markets. Almost al. Voice communication now travels via fiber optics. The concentration of high-volume users in the largest world cities has fundamentally shifted the balance of competition to fiber optics. The growth in the global fiber-optic network across

the Atlantic and Pacific Oceans in recent years has been to serve giant world city clients (Warf, 2006). Box 4.3 compares the geographic patterns generated by voice communication with those evident in Internet communication—though similar, there are some important differences,

In addition to fiber optics and sate ites, another key component of the telecommunications revolution has been the phenomena, growth in the use of mobile devices, increasingly in the form of smart phones and wireless tablets. This increase has been particularly dramatic in recent years as onsis have gone down and competition among carners has increased. Globally, there were more than 6.5 billion mobile device subscriptions in 2013, up from only 600 million in 2000. Given that global population was just over 7.0 billion in the same year, this is a remarkable number. In the U.S. and most other economically developed countries, there are more subscriptions than people, which iliustrates that many people have access to multiple subscriptions. More than 76 percent of mobile subscriptions are in developing, not developed. countries (Figure 4.10). Africa remained the fastest growing world region in mobile device usage, as few conventional land phone lines exist. Africa had 545 million subscribers in 2013, up from 152 million subscribers in 2006 and only 12 million in 2000.

TELECOMMUNICATIONS AND THE URBAN ECONOMY

At the core of modern capitalism is the need to overcome space and time. In the past the transcending of space and time was achieved by use of better transport technology, that is, faster and larger jet airplanes, improved automobile performance, larger trucks, and wider and upgraded interstates and other highways. Today telecommunications is essential for the geographical and economic functioning of contemporary global capitalism. Mobility and near-instantaneous telecommunications form the basis of corporate power and control, scientific and engineering discourse, and governmental legitimation of the capitalist economy. The ideal of global



Cell Phone Usage, 1995-2009

Figure 4.10 Explosive increase in the use of cell diar devices 995-2000 Source: Extracted and Modified from Michael Hate, http://en.wikipedia.org/wiki/Fite Mobite phone map 980-2009 gif. Data Source: http://reference.wc.fram.com/mathematica/mise/CountryDataSource.ln.ormation.html.

capitalism is to create a "spaceless world," to bring all cities functionally into one location. To put it another way, national and global transurban relations have surpassed the local, city funterland relations for the world's giant megacities. These dominant intercity linkages are perhaps best expressed through the flow of capital among financial markets.

Financial Markets

The three global cities of New York, London, and Tokyo dominate the global financial markets (Sassen, 1991). New York is the primary recipient of capital. London is the leading processor of international capital, and Tokyo is the main exporter of capital. These three eities form the core of the 24-hour global financial marketplaces. The financial transactions among these centers, as well as among stock markets in many other cities around the world—from Chicago, Hong Kong, and Singapore to Bangkok, Manila, and Istanbul—are carried out by advanced systems of telecommunications. These network links depend on satellites and agreeasingly on fiber-optic cobles.

Telecommunications networks allow worldwide financial investors to take advantage of minor but significant fluctuations in stock values and exchange rates. Digital trading systems allow nearly instant communications with clients. Investors of funds search the globe for the highest rates of return and suffer no delays in financial trading. In financial transactions, widely separated cities maintain closer ties with one another than they do with their local and regional hinter, and economies

Most financial institutions and other dataintensive corporations, governments, and institutions maintain backup systems in several locations across the United States in the event of a natural assister or a human terrorist attack, as occurred on September 2001 For example, the Teachers Insurance and Annuity Association—Co. ege Retirement Equities Fund (TIAA-CREF), headquartered at 730 Third Avenue in New York, and not physically harmed by the horrifying tragedy of 9/11, had backup service. and data centers in Denver and Charlotte. Social Security and military data are likewise protected by multiple backup locations. Interestingly, the Internet was little affected by the 9/11 attacks because of its inherent multiple access from computers around the world

BOX 4.3 TECHNOLOGY AND URBAN GEOGRAPHY

INTERNATIONAL INTERNET CAPACITY AND VOLUME OF INTERNATIONAL TELEPHONE CALLS

A fundamental understanding of the geographic functroning of the gohal economy may be achieved by looking again at world Internet espacity and comparing it with other forms of communication. Looking back at Figure 4.8, though the diagram shows that the internet birks between North America are stronger with Europe than with Asia or Laim America, the figure lacks intraregional detail. Figure 4.9 and Table 4.10 provide some additional details about specific cities. TeleGeography (www.telegeography.com) provides even more detailed and useful data that are not easy to depict to simple maps. The United States has its strongest interregional internet links with the most developed European countries. United Kingdom, France, Germany, and Italy) and their principal c ties. Canada, despite its relative y small population size. is the single leading North American country in internet links with the United States. The transpacific ties are primarily with Japan, but also with Kurea, Chian, and Taiwan. The developing economies of Latin America have only weak anks with the United States, principally Brazil. and those anks with Africa are still relatively minor.

Interestingly, international telephone calls (Figure B4.2) reveal patterns similar though not identical to those of Internet transmissions capacity. As we would expect, the volume of telephone calls is greatest

Office Economies

Internet Service Providers (ISP) during the past few years have been busily laying fiber-optic cable within major metropolitan areas. The cheapest way to route fiber cables is to string them along existing electric power lines. Such cables are easily subject to interruption when, for example, vehicles strike the electric poles or the storms and snow may pull lines down. The cost of burying an underground cable varies from more than \$100,000 per mile in a congested down town location to \$25,000 per mile in a suburban area. Underground cables are of course much less

with the major arban centers in the most economically developed courtines of Europe and Canada, International telephone flows are depicted only when they are both ntercopt neptal and in excess of 400 m hon minutes. The width of the telephone flow lines is proportional to the total annual traffic on the public telephone network in both directions between each pair of coug ries in millions. of minutes in 20/2. The telephone linkages between the United States and Asian countries are strongest with India and China. They are stronger with India than they are with China because of corporate telephone services. provided primarily by English-trained, young females. Other notable are between the United States and Asian nations include those with Australia, Indonesia, Taiwan, Japan, and South Korea. In Europe, the Jinted Kingdom. stands out in the number of telephone ties with the United States, as does Germany and France Telephone ties are not shown between the United States and Mexico. Colombia. and Brazil stand out as well connected South American countries. Other actable intercontinental telephone flows connect Turkey with Germany. Large telephone flows connect both the United Kingdom and Russia with former colonia, terr fortes.

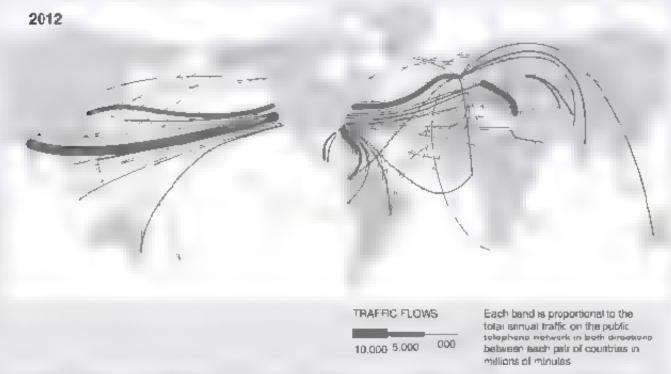
Even though Internet based communications are in many way supplanting older communications technologies such as traditional telephones, the pattern of Internet connections between nations and between cities in some ways is less reflective of the true structure of the global tirban system. As TeleGeography (2012) notes, the

vulnerable to natural or human-created disruption and therefore more secure

Fiber optic cables are typically built in loops in and around metropolitan downtown and in suburban locations. To save costs, fiber-optic lines are often aid out along existing rail, electric and natural gas rights of way Fiber-optic loops are built for two basic reasons. One is to extend internet service to large, established corporations and institutions, usually located in downtown areas (Coca-Cola in Atlanta, Wachovia Bank in Charlotte or Citibank in New York). Here the Internet comes to them.

topology of the internet is controlled by specific operators who may choose to reduce tall nk from one city to another for technical or for geopolitical reasons. It remains useful.

therefore, to track both new and traditional communications patterns in our attempt to better understand the global urban system



Notes Each bery is proportional to the total annual traffic on the public network in both direction between each pair of countries. These maps show all interconfinents, routes with an annual volume of more than 400 million minutes. Data reflects both TDM and YolP traffic

Figure B4.2 Coobs, a productor of cable map, showing internal stall nothbound telephone calls. Source: TeleGeography/www.telegeography.com.

The second reason for building fiber optics in metropolitan areas—and this construction is usually found in suburban areas—is to provide fiber-optic service to attract new or relocating firms to these suburban sites. In these cases information-hungry firms are being lured to locations where fiber-optic services are available. Despite the high cost of making fiber optics available knowledge-based companies and institutions find these services essential to their business operations.

A telecommunications advantage for many downtown locations is the ample supply of aging buildings that are increasingly unsuitable for their original purpose but are uniquely suited for Internet rewiring due to their spaciousness, proximity to rail lines for fiber-optic rights-of way, and high floor load carrying capacity. These buildings are located near the downtown fiber-optic loops, they can thus provide corporations and institutions with a broadband superhighway ("fat pipe" in business jargon) that can handle multiples messages simultaneously and ensure speedy, high volume data transmissions. Some experts have likened the Internet to a hierar chy of roads, with the superhighway able to move many vehicles (messages) rapidly side by side. In contrast, copper telephone lines on backroads may become congested even with hinted traffic volume. Downtowns thus serve as a prime location for large telecommunications-intensive corporations because of building infrastructure, nearness to the downtown fiber-optic toops, and the availability of railroad electric, telephone, and natural gas rights-of way in which fiber-optic cable can be buried.

TELECOMMUNICATIONS AND URBAN SOCIETY

Not only is telecommunications influencing where people live, work, socialize, and shop, but it is also altering the kinds of activities that take place within the family home, the office and other workplaces, the classroom, and financial institutions. Though central to the current phase of globalization, the Internet is also hub for social networking, contacts between grandparents and grandchildren, leisure-time activities, news reporting, shopping, dating services, and even organized crime. Importantly, these transformations are seen in etties of all given and in every region

Manuel Castells (2004, p. 83), a leading theorist on the Informational City, views the

process of urbanization [as] concentrated disproportionally in metropolitan areas of a new kind, urban constellations scattered throughout huge territorial expanses, functionally integrated and socially differentiated around a malticentered structure. I call these new spatial forms metropolitan regions.... Advanced telecommunications, Internet, and fast, computerized transportation systems allow for simultaneous spatial concentration and decentralization, ushering in a new geography of networks and urban modes throughout the world, throughout countries, between and within metropolitan areas.

Greater efficiency and increased productivity are achieved in the workplace, as email often makes more inconvenient telephone conversation unnecessary, although given that many are becoming more acutely aware that email leaves a permanent record, many forms of communication that require sensitivity are better conducted via voice communication. Even here, however, the 20-3 controversy about the U.S. National Security Agency spying activities justifies that mobile telephone communications can be tracked and monitored. Perhaps face-to-face communication, which requires physical proximity is actually more necessary than the globalization Pollyannas thought⁴.

Although some scholars have predicted the "death of cities" as a result of information being equally abundant everywhere in the country or world, as we have seen, to ecommunications can both central ze and decentralize urban activities. Past urban planning and poricy approaches saw the city as made up of distinct and discrete zones of residential, commercial, and industrial land use maintained by zoning ordinances. This industrial era perspective has become obsolete in the telecommunications age. The contemporary large city, far from being bypassed by spaceess communications and the death of distance, has became a concentrated consultation of computers practipally linked with other major cities, themselves the control points of national and global economics and the ensuing social and cultural consequences.

The Internet accommodates the global flows of information, people, money, commodities, entertainment, and custural symbols. Telecommunications has clearly enhanced the cultural and symbolic content and images of cities around the world and it has advanced the tourist industries. These sectors of the economy are almost exclusively located in arge cities, for example New York, Los Angeles, Chicago, Boston, and Atlanta in the United States. Image-producing industries, such as television news centers (Atlanta, New York, and Washington, D.C A. fi.m production and music recording (Los Angeles). and women's fashion clothing (New York, Pans, and Los Angeles) have found satellite and fiber-optic telecommunications mereasingly essential to maintaining a creative global cultural economy.

WRAPPING UP

Globalization, as mediated through selected cities and enabled by telecommunications technology, has replaced international relations among countries only space the 1970s. Whereas international trade, for example, refers to commodify movement among countries, globalization refers to the movement of capital, information, goods, and services among huge multinational corporations, largely ignoring the traditional role of national boundaries. Multipational corporations are heavily concentrated in a relatively small number of world cities. The hierarchy of world eities has shifted over time with the economic growth of East and Southeast Asian cities, European cities, and cities in developing regions of Latin America. J.S. multinational firms dominate the global econovery, especially petroleum, and Japanese companies are among the leading automotive corporations. People in developed parts of the world who are iess than 30 years old have only experienced living in a global economy, which increasingly reaches to people in developing cities of the world. Only older people have experienced and remember the local, regional, and nation based world and its sucden transformation by the information age into a multinational-based globalized uni-

We are in the initial stage of the telecommunications age and its impacts on cities. Nonetheless, we are already seeing the fracturing of geography, as world cities and other megacities have become the principal nodes in the newly emerging economic and social order These large, interlinked urban centers form the skeleton of globalization, connecting the world capitalist system via huge multinational corporations. This skeleton is physically held together by hair-thin glass fibers, some lying in caples on the ocean floor, some buried in the soil, and some string on telephone poles. This chapter has demonstrated how telecommunications, particularly the internet, is remaking urban areas and the relationships among national and world cities through front-office and back office activities.

PART III

THE ECONOMIC LANDSCAPE OF THE CITY

URBAN LAND USE, THE CENTRAL BUSINESS DISTRICT, AND THE GROWTH OF SUBURBS

So important and pervasive had the trolley become by 1904 that its inventor Frank Sprague could reasonably claim, "the electric radway has become the most potent factor in our modern life."

-Kenneth T Jackson, 1985, p. 115

In this chapter, we consider the internal aspects of cities. Why do cities look the way they do and what have been some of the engines of change? Our intent is to demonstrate the range of urban functions and then provide a means by which to understand the distribution of these functions. In other words, why are particular functions found to certain locations within a city?

We examine these urban distributions primarily through the concept of land value and bid rent. First associated with William Alonso from his book Location and Land Use, thus is a method to understand how market forces drive the cost of land and determine how land parcels are used. Changes in internal urban transportation have altered the logic of land value and where different functions are located, as well the density gradient in cities. Declining downlowns have spurred efforts towards rejuvenation, and we look at the various strategies employed. We end with a discussion of how polycentricity has transformed the suburbs, leading to even more extensive suburban sprawl.

White land value applies to all cities, the emphasis here will be on U.S. cities. American cities are useful in two ways. First, many American cities have had a blank state to work from, European and Asian cities. are constrained by historical urban elements, whereas no American city has a history that goes back too long. So, these cities have had more of a chance to expand based on these market forces. Secondly, the influence of land use planning is quite low in the United States (see Chapter 12). While this has can have a number of unfortunate side effects, it also creates a circumstance in which the forces of the marketplace are given free term

TOWARD A MODEL OF LAND USE

Before we begin to delve into explanatory models or urban land value, we have to come up with a general description of the modern city. This can serve as a kind of ideal type. A few basic things we are concerned with are (.) functions: the sorts of features present in the city, (2) distribution, where these features are located, and (3) intensity: how intensively these features are used.

Like any economic model, the early material may seem a bit unrealistic. It is important to remember that attempting to describe and explain what goes on in cities is a complicated procedure. But it is best to start off with the simplest possible model, and then elaborate on that model until it begins to resemble cutes as we know them today

Urban Functions

The modern city is composed of different functions. Parts of the city are for the exchange of goods and services (retail functions), some parts are used for offices and company headquarters, some parts are used for factories (industrial functions), and some parts are used for houses and apartments (residential functions). In addition to these, we must add other parts of the city that are part of the public land, streets, landfills, parks, as well as government buildings and schools. These compose a great deal of land in the modern city in addition, we must consider the land that is underwater, that is undevelopable (e.g., too hilly), or that is just left vacant.

Unfortunately there have not been that many inventories conducted on land use functions in the U.S. city. The last that we could come up with was done in 1968, which averaged the 100 largest U.S. cities at the time. Table 5.1)

The small commercial percentage is a bit misleading. Enlarge cities, continuered areas in ay not have an extensive footprint, but they end up taking a great deal of vertical space. The higher land values assessed for

Table 5.1 Urban Functions 1968

Type of Use	Cities of 100K+	Cities of 250K+
Private	57.4	647
Residential	31.6	323
Commercial	4.1	4.4
Industrial	4.7	5.4
Railroads	1.7	2.4
Undeveloped	22.3	12.5
Streets	17.5	18.3
Public	23.7	16.2
Parks	4.9	5.3
Schools and Colleges	2.3	1.8
Airports	2.0	2.5
Cemeteries	1.0	11
Public Housing	0.5	0.4
Other	3.0	51

Source: Taxen from Marvel, A. D. 1968.

such areas makes tall buildings more profitable. So if we were to consider percent of overall floor space, the percentage would be much higher. In addition, each of these functions may be found at several different density levels. Residential development, for example, stretches from high-rise apartment buildings to extensively spread-out single family houses.

In regard to some of the general trends since 1968, we can say that the percentage of land used for residential areas is going up, while the percentage of land used for roads has gone down. Much of this is due to lower overall densities. A compact, high density city will have many streets (city blocks), whereas a low density suburbanized city has fewer roads overall servicing more spread-out areas. As houses have become more spread out, the percentage of residential land has increased. Still, the area occupied by roads and parking has expanded tremendously

Model of Land Value

Once we can establish the different functions that occupy a city, then it is possible to draw up a function which shows how these land uses will be distributed. To begin with, land uses are very much determined by the relative value of each parcel of land. Highly valued land will be used for different purposes than and that is much cheaper. This also impacts how intensively the land is used.

Distribution + Intensity of land use = f(Distribution of Land Value

One way to define land value is as **bid rent**, which is the amount of money that a particular parcel of land could expect to receive. In this way bid rent is a synonym for land value. The bid rent or value of a parcel of land has to do with two basic aspects.

Land Value Bid Rent) f (Site, Internal Situation)

Site has to do with the physical attributes of the location. Site is extremely important in determining the distribution of land values for particular functions. Factories need flat land, most people prefer to ave in hilly areas. Beyond the basic requirements, a more attractive site, say with a view of the ocean or next to a park, often commands a higher price. The internal

situation in this case defines the location compared to other parts of the city. Situation boils down to access How accessible as the workplace, stores, factories? Obviously, access has a different meaning for a store, or a factory, or a resident.

In order to build a model of land use, we need to start by taking away a lot of complicating factors and use the samplest possible case. So in this case we initially assume that

- There is a point in the city with the greatest degree of access. We can call this point the Prime Value Intersection or PVI, and it is the central point around which all of the other land values are octernined.
- Access to the PVI is based solely on distance. Anyone a male away has the same access as anyone else a mile away in a different direction. We will consider the importance of transportation arteries later.
- Ad site factors are constant, which means that all land has equal desirability in terms of its physical attributes. This means only the internal situation or accessibility factors coun.
- 4 There is no zoning or any other type of planning that designates particular pieces of land for particular uses

These assumptions determine that the bid rent is based solely on the intrinsic worth of the land minus the costs of access. More formally

Bid Rent = Land Value at PVI - Access Costs
Where

Access Costs = distance * the costs associated with distance for a particular function

Different functions are going to have a greater stake in being close to the PVI, and so in having a greater degree of access. For example, corporate offices and financial headquarters need to be close to the PVI. They depend on face-to-face contacts, impromption meetings, access to quick credit. Specialized retainestablishments will have a great need for access, since they depend on foot of vehicle traffic and being reasonably convenient to their overall market. Factories also need to be close to the PVI, but not as critically. They are more interested in accessing other cities and

Table 5.2 Land Values and Access Costs for Separate Functions

Land value at PVI	Access Cost per Mue		
\$2000	\$ 000		
\$1500	\$500		
\$1000	5150		
\$500	975		
	\$2000 \$1500 \$1000		

in having good transportation to the source of raw materials. Access is useful in terms of being near other factories and stores, as well as transport facilities such as train tracks. Residences probably have the least stake in he ing close to the center, though this can depend. For some residents, access is nice in terms of being close to work, stores, and other functions. Other residential users are interested in being farther away from the noises of intense urban activity.

We can see how this works using our equations above. Hypothetically, there is a parcel of land right next to the PVI. But these different urban functions have different costs of access per mile, as shown in Table 5.2.

So costs will differ for each function at different distances from the PVI (Table 5.3)

Figure 5.1 shows the chart that results from this table. It shows how the bid rent changes for each function. Unless there is some intervening factor, the parcel of land will go to the highest bidder. This comes from the principal in real estate called the "highest and best use," which is the land usage which is going to be most profitable, while at the same time being feasible.

Since the value of each piece of land varies depending distance from the PVI and the function for

Table 5.3 Land Values at Different Distances

		1	2	3	4	- 7
	PVI	Mele	Mues		Mues	Miles
Office	52000	5 000	\$0			
Retail	\$ 500	\$ 100	\$500	\$0		
Industrial	\$ 000	\$750	\$500	\$250	\$0	
Residential	\$500	\$425	\$350	\$275	\$200	0

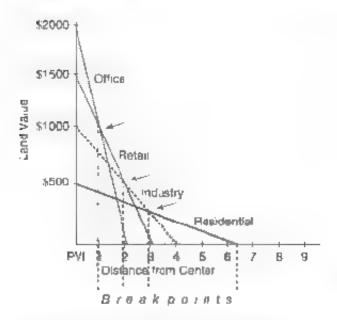


Figure 5.1 Chart showing how land value varies by function. Source: Authors.

which it will be used, this means that fand will have different uses depending on how far it is from the center. In Figure 5.1 from PV1 to 1 mile, land will be used for offices. From 1.to 2 miles, it will be used for retail, from 2 to 3+ miles it will be used for industry. And from 3+ to 8 miles it will be used for residences. After 8 miles, the effective arban use of the land ends. So we can convert this graph into zones surrounding the PVI, and describe the dominant land uses within each of these zones (Figure 5.2).

The highest and best use of and at each distance from the PVI creates the basis for the value of each parcel of land. The actual shape of land value curves out as different functions take over. The value of land right next to the PVI can drop very rapidly. A parking space two blocks away can be half the cost of a parking space at the PVI. This map showing land value in Municapoits and St. Pau. (Figure 5.3) illustrates this concept well.

This also relates to the intensity of use. The higher price for a parce, of land near the PVI means that it is more economica, there to use land more intensively and build up. Fifty story buildings become feasible when the price of land is millions of dollars an acre. The Federal Reserve Bank of New York estimated.

that the price of an acre of land near the Empire State Building was \$90 million in 2006. Nobody would place a low rise building when land is this expensive. Out toward the edge of a city tall buildings are not worth the cost of construction. Low-rise buildings, including single family houses, become much more practical. High and value encourages intensive use. So those office functions at areas of high value will be set in skyscrapers. Similarly, residential areas of high value will also be set in mult story buildings. Even the wealthiest resident of a big city could not afford to plunk a detacked house in the middle of downtown.

Clearly, many of these initial assumptions are unrealistic and there are several other factors guiding and value beyond simple distance to the PVI. Some parcels of land are better serviced by transportation, and this increases their accessibility. Also, considerations of site become more important. Factories need to locate on flat, dry land, regardless of where they are located. Tall buildings need a strong structural foundation underneath. Residential users are extremely susceptible to size considerations. Most prefer a hilfly, rolling topography over a flat area or perhaps some type of waterfront. As any real estate agent can tell you, some neighborhoods are just more popular than others, and this inflates the price. The issue of externalities is important here, referring to the fact that the value and desirability of any plot of land, particularly residential land, is affected by what is nearby We will talk more about zoning in Chapter 12, but suffice it to say that zoning has come into play as a means of mitigating negative externalities by clustering simular uses together, and excluding some uses from consideration

The Central Business District

The most distinguishing feature of a city is the Central Business District or CBD. In many respects, this is a more precise term for "down-town" though in big cities, the CBD can encompass several downtowns and "uptowns" and the entire district or districts can stretch over a few square miles. Whale the CBD does not have the importance at used to in many American cities, up until World War H at was the single most important organizational point

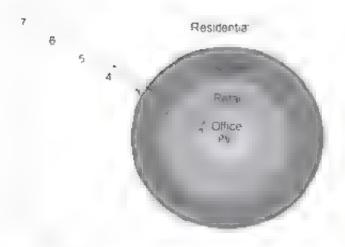


Figure 5.2 Map based on land value curves in Figure 5.1 depicting hypothetical land use zones, *Source*: Authors

for all American cities. It still continues to play an important role and some might argue that the CBD is coming back in significant ways.

Contrality 18 critical to the placement of the CBD within the city and the kinds of functions it contains. The main advantage of the CBD was centrality. Many CBDs developed where there were significant breaks in the external transportation networks. For example, many CBDs emerged at so called break of bulk points, where cargo was transferred from one mode of transportation to another. This could be a good place to establish a factory. Other types of transportation centers also attracted activity, because this is where individuals would often stop for a transfer. n the case of canals, discussed in Chapter 3, the locks were popular piaces to set up taverns and other places for diversion while passengers and freightmen waited for the canal boats to be raised or lowered. Crossroads were popular areas to set up a business since these could be accessed from more than one road. Beyong this, many districts which would later become CBDs

emerged near major mining or tourist operations or around market places

The CBD serve a number of different roles in the city, primarily based on its higher and values, more intensive use, and greater accessibility. The CBD

- 1 Serves as a central murket place. This means examinely specialized stores, the flagship stores of large department stores, large banks, and brokerage houses. It also means that major entertainment and cultural services, including theaters, symphony halls, museums, and sports arenas are likely to be located in the CBD.
- 2. Serves as a major transportation node. The CBD acts as a nodal point for all transit routes (except airports, which require lots of land). Large city CBDs still contain the mojor train depoils, intercity bus stations, and are also a focal point for intra-city transportation, ike streets, subways and elevated trains. The CBD in porticities also may revolve around a harbor front.
- Serves as an administrative center. This is often where government offices are located, particularly those which involve more interaction with the public.

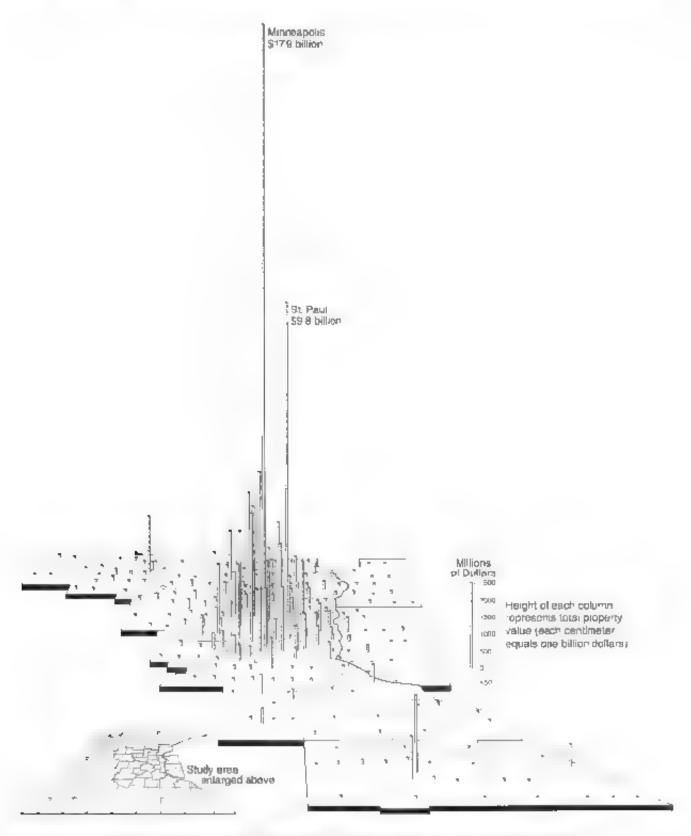


Figure 5.3 The gradual decline in land value from the PVI in Managapous and St. Paul. Source: Authors

- 4 Serves as a location for high-level producer services—advertising or legal services for example—and command and control centers like company headquarters. This is true even in more sprawling cities like Houston, where the downtown still contains several tall buildings hosting headquarters of major corporations.
- 5 Within the CBD is found higher land values overall and intensive use of land. This means that the CBD willikely have much talter buildings unless height restrictions are imposed.
- There will be heavy pedestrian traffic, since density causes people to walk more
- 7 Most importantly the CBD is transmortally an area with few or no residential functions. People go to the CBD to work or to shop, but not to live

As our simplified model in Figure 5.2 demonstrates, the center of the city is generally absent of residential functions—though this has been changing in recent years. Yet many other functions, including residential, are found just outside the traditional CBD Geographers sometimes refer to this area as the CBD feame, an area of less-microstyc land use (Figure 5.4). Large cities might contain residential. high rises, especially close to invenities such as waterfronts or parks. New York has its string of ultra-rich apartments surrounding three sides of Central Park, Chicago has luxury high rises along Lake Michigan. Other functions that require some aspect of centrality but cannot afford to be in the very center may also be located in the frame. This would include industries, warehouses, some retail functions such as bigger furniture stores, and many institutions like hospitals and universities. In some sectors, there are zones just outside the CBD that contain a number of disamenities—skid rows, red aght districts, and railroad tracks. This is also often where public housing is located (see Chapter 8).

Residential Users

Beyond the frame, we often see rings of residential use take over in decreasing intensity. This usually begins with apartments, then moving to rowbouses and duplexes, and finally single-family detached houses. Some of the more intensely used residential building serve affluent customers, as described

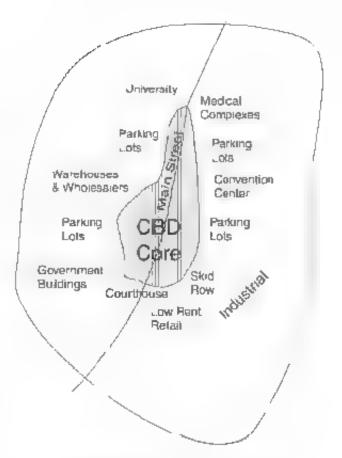


Figure 5.4 CBD core and surrounding functions to the frame Source Authors

above, but a general relationship often prevails in American cities, where poorer households are more likely to locate in the inner city and wealther households in suburban and exurban areas. This brings up the paradox as to why poor people live closer to the center of the city where land values are higher, and most wealthy people live in the outskirts where land values are lower.

Chapter 8 provides a much more comprehensive view of the economic, political, and institutional forces that have created separate housing markets within the metropolitan area, but there are a few explanations for this paradox that we can explain here. The first thing to consider is that residential users have a completely different value of land than do offices, stores, and factories. Because a lot of space farther out is worth the same as a tiny bit of

space close in, most people who can afford it will choose the greater quantity of suburban space to the smaller space available in the inner city

In addition, we find that for residential users, locations near the core can carry tiegative externalities. Land near the center of the city can be close to noise from the streets, smoke-betching factories, and other annoyances. This pushes its value down, especially for those who can afford to go alsowhere. Of course, for some the positive externalities of stores, restaurants, and museums makes city living desirable, but this still applies to only a minority of consumers.

Finally, there is the fact is that the proportionate cost of access is higher for the poor than for the wealthy Middle- and upper-class people have cars, and they usually have stable jobs. It is easier for them to be away from the hustle and bustle and to commute. The poor many of whom do not have automobile access—may have difficulty coming up with bus fare and the long hours it takes to get into town. In many cases, suburban areas are not well served by buses and other transit choices.

Of course, there are exceptions as some wealthy people choose to live in the city, porticularly where there are a number of positive amenities. Many people end up living far away from the city because they cannot afford housing closer in. The phrase "drive till you qualify" reflects the attitude that it is possible to qualify for a house large enough to meet a family's needs by commuting far from the city—trading

time for space. In many outskirts are also found trailer parks, where poor people also live

Density Gradient

One significant consequence of the land value curve is its effect on intensity. This can be measured in several ways, but one of the best measures is to look at density. In this, we want to distinguish between daytime and nighttime density. The CBD itself may contain a low nighttime density because most of its space is reserved for employment, but its daytime density (when people are at work) will be high.

Figure 5.5 shows a typical nighttime density gradient. There is very low density right around the CBD at night—in the day this area would sport extremely high densities. Close by the CBD, where residential development begins, we often find the region of highest density. This high-density peak can be described as a circle surrounding the CBD. Obviously, high rises are going to have an enormous density, because density is counted by the amount of land taken, not by floor space, and several people living in a 50-story high rise will translate into a large number of people on each agree of land.

Following this peak, the density gradient tends to fall, sharply at first as apartment heights fall, then more slowly as rowhouses, triple-deckers and duplexes replace these. Finally, in the areas of single-family housing the density peaks fall more slowly sull, as urban land goes from small lots of

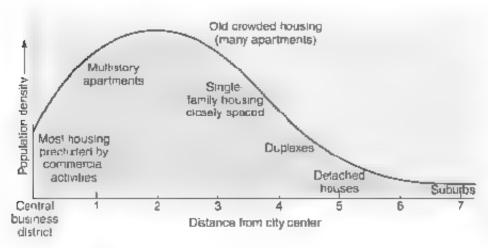


Figure 5.5 Nighttime density gradient. Source: Authors

perhaps an eighth of an acre to plots of one, two, or even three acres. Finally, the density gradient talls off to where urban uses transition to rural uses.

Many people have studied the changing shape of density gradients over time. Two things have been observed. First, CBD densities peaked as a city grew, then they began to fall as the city expanded. In the United States, there was a peak about 1930–1940: Milwaukee had central city density of 75,000 people per square mile in 1930, but only 3,000 per square mile by 1963. Overall density in the city was a lot lower too. Second, the density gradient has tended to flatten out over time, This is because the peripheral areas have increased in population relative to the center as the city expands.

In general, American cities are the least dense in the world. International urban densities are much higher, with Manila (111,000 people per square mile), Cairo (46,000 per square mile), and Pans (53,000 per square mile) leading the list. In the Juited States, New York City is the densest large city at 26,000 people per square mile. But other cities are far less dense: Boston, Chicago, Miami, and Philadelphia are between 11,000 and 12,000 people per square mile. With Sunbelt cities less densely populated than cities in

the Northeast and Midwest Of course this does not include the density for urbanized areas, which can be more revealing since such areas capture the true urban population. Urbanized areas have steadily expanded in physical size as their populations have grown—something that is not available to all cities.

Figure 5.6 shows how densities have changed for both urbanized areas and core cines in the United States. Densines for urbanized areas (which include the cities) are significantly lower than for the cities themselves, since these urbanized areas include the low density suburbs surrounding the city. Until about 1980 density levels fell dramatically for arbanized areas but have since held fairly steadily. For core cities, density tevels fell unal 1990. Many cities lost populations within their municipal boundaries while those increasing in size—mostly in the U.S. South and Southwest-were able to add territory through aggressive annexations (see Chapter 11), Houston and Dallas tripled their land area between 1950 and 1990, for instance. Since 1990, core city densities have mereased a little bit. This can be because of population increases that have not been accompanied by additional amexations. Within the urban surface itself, however, the density gradient continues to flatten out. There are some signs of people returning to centra, and inner cities but we will have to see in

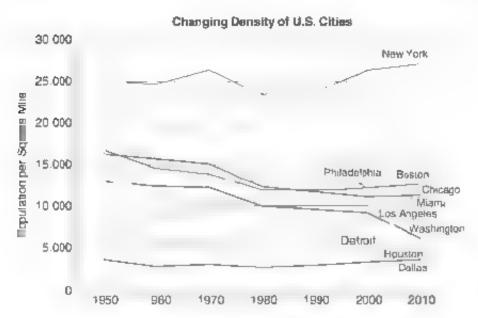


Figure 5.6 Changing densities for the largest U.S. cities. Source. Authors.

the next ten or so years whether this is the beginning of a trend

URBAN TRANSFORTATION AND CHANGES IN LAND VALUE

The concept of land value and bid rent has a great deal to do with the expanding size of cities, the changing shape of cities, and the distribution of urban functions. As we saw in Chapter 2, cities were extremely sensitive to transportation concerns, and the very earliest cities were limited as to how quickly goods could reach them. Later on, trading cities tended to locate in areas with the most favorable situation, which means those places with the greatest access to trading and shipping routes. But heyond the needs of cities to locate in areas favorable to external mutes, we also have to consider the internal transportation routes that allowed individuals within a city to act as part of a single community.

Advancements in this area have been relatively new. Up until about 1850, there were very few changes in urban transportation. Sometimes streets were widened or there was bener traffic regulation. But beginning in the mid-mineteenth century, the United States led the way in new transportation to help people get around. Because transportation equals access, access equals land value, and land value equals the shape, size, and functional distribution of cities, transportation has had the major role in determining what modern cities look also We can divide the story of internal transportation into lour phases:

- 1. The walking city, pre-1850.
- 2. The horsecar and electric streetcar era. 1850–1920.
- 3. The recreational auto era 1920-1945
- 4 The freeway era 1945-present

The Walking City

We can describe the city up until about 1850 as a walking city. With the exception of the very wealthy, able to avail themselves of horse-drawn carriages, most people in a city were compelled to walk to work, to shop, and to visit friends within the city. In fact the cities that were the biggest and grew the fastest in this period—New York, Boston, Phrlade.phia.

and Charleston—were only about 2 miles in overal, radius—the distance that a person could comfortably walk from the edge to the center in about an hour

This horizontal compactness was further exacerbated by the fact that buildings could not go above a certain height. The reinforced architecture and elevators that made skyscrapers possible was not yet invented. So the only way in which a city could acquire more accessible land was through leveling hills, draining marshes, filling in nearby water. Also, bridges and ferries were established to connect central cities with nearby communities. Boston to Cambridge, Manhattan to Brooklyn, But the spatial annitation remained essentially the same

The walking city had a particular urban form. First of all, there wasn't yet much specialization of functions. We might characterize a few distinct 'rings based on access (Figure 5.7). The "center" of the city was at the post itself, where wharves, warehouses, and trading offices could be found. For these functions, the "friction of distance" was at its most acute. They had to occupy the waterfront. As rulroads became more important, these central functions would tend to orient towards the rulroad depots. Beyond this were located those functions for which



Figure 5.7 Schema of the walking city. Source Authors.

central access was necessary but not as acute as the directly mercant, e functions. Speciaity shops, hotels, and some public bundings might be found in this secand ring. Also, here were located the homes of the wealthy traders who desired to live close to the waterfront but not right on top of it.

It should be noted that it some ones like London, wealthy industrialists and merchants wanted mee housing within the city yet far from the dirt and congestion of the factories. Thus, they built large houses in suburban estates-tracts of land adjacent to the existing city. Townhouses were also constructed for wealthy aristocrats who needed to attend to financial or business matters in the city or simply wanted to maintain social connections. These served in many respects as antecedents for the later suburbanization ta follow

The walking cities shared a few notable attributes.

- Functional integration: Because the arge-scale factory. development came rate to the United States, the compiete separation between home and work had yet to take place so these residences often contained workshops or stores fronting the street
- · Retail activity: Except for the fanciest stores near the center, retail activity was dispersed throughout the residential areas. Lamited space and nonexistent zoning made this very chaotic.
- Social Integration: There was relative integration by class, a though the wealthy began to move to separate districts here as they had in England. But because the spatial extent of the city was so constrained, this could be difficult to accomplish, la fact, many pietures from this period (in Buston, for example) show an upper middle-class house fronting the street, with a working class house behind, facing the alley-
- No real CBD: Space constraints made it nearly impossible to push already existing "low-cent" functions out-So the central district could not yet become clearly defined.

Horsecar and Streetcar Era

After about 1840, a number of factors came into play that eventually reshaped and expanded the old city. More and more people entered into cities as they provided expanded job opportunities. The combination of urban growth and inability to expand

spatially meant that density levels increased to their bighest levels ever New York had an overall density in 1850 of 136 people per agre (about 87,000 people per square mile). Philade phia and Boston were about 83 per acre (48,000 per square mile). Increased densities could only be contained so long, and as industrialization took off, immigration increased. more people came in from the countryside, and the size of cities inexorably increased.

Some of this increased population could be accommodated through better building technologies. Tall buildings finally began to appear in the centers of the city where rents were high enough to encourage this kind of amovation. Most important though were the development of various forms of mass transit. Early transit systems came into play as early as 1827. when a New Yorker decided to attach a long coach to a team of horses. Unake a cab, this omnibus traveled. a fix route (up and down Broadway) for a fixed fare (12 cents). The seats were arranged lengthwise and accommodated about 20 passengers. People who wanted the omnibus to stop merely had to pull a strap. attached to the driver's log. By the early 1850s, there were omnibuses operating in most nonhern cities and in New Orleans. New York ornin bases carried about 120,000 passengers annually. Omnibuses also became important in London. By 1854 there were 20,000 committees by bus, 15,000 by steamboat, and 6,000 by railroad. But 200,000 people still walked. The horse-drawn streetcar followed the idea of the omnibus, but laid out on rails (Figure 5.8). These were easier to pull and so could be larger. The streetcar lines were also more fixed; once a route was decided, it stayed there.

Towards the turn of the century, cable cars were developed. But more important were electric trolleys, which ran on tracks like streetcars but could go much farther away. These sometimes took the form of elevateds like in Chicago, or underground subways. In the Laited States. Boston was the first to develop streetcars in 1897 followed by New York in 1904. These were similar to horsecars, except they traveled longer distances at a faster speed.

The streetears that developed had a dramatic impact on land value and on the shape and nature

Figure 5.8 A male-drawn radroad car in Covington, Georgia, carea, 1900

of the city, as shown in Figure 5.9. Each of these changes helped to create many of the cities that we see in the United States today, with the following characteristics:

- Expansion of the city: Horse-drawn streetcars made
 it feasible to live up to 5 miles from the center of the
 city, and electric trolleys expanded the radius to 10 and
 sometimes 20 miles. Considering that the walking city
 was some 2 miles in radius, this had the potential to
 expand available urban space 25 to 100 times. Cities
 and grew to 50, 75, even more than 100 square miles.
 Annexations, a factic discussed in Chapter 12, made it
 possible for mineteenth-century municipalities to grow
 along with the effective size of the urban space.
- Division by social class: Those who could afford to leave the inner city took advantage of mobility offered by the streetear But it came at a price. The average taborer making \$1 a day was still basically immobile Fares were based on distance so wealthiest could afford to live farthest out white middle class residents lived closer Real estate developers promoted the idea of "suburban" living, far from the bustle of the city, yet accessable. Tracks were laid along were considered the most profitable routes. The affluent chose the most attractive area.
- Creation of CBD: The CBD expanded to include most of what had been the previous warking city, and began to

speciaize only in those functions that could command the highest rents. The type of bid-rent curve began to take shape with financial, office, and specialty retail stores located downtown at the bab of all of these transil lines, so that all parts of the city had access. Because tand values were so high, tak buttoings were badt here Industries were located a bit further out but still near enough to be proximate to transport nodes. Surrounding this belt was the area in which the most ammobile and the poorest people lived.

Photographs Diveron

Prints and

'n

- Incremed mobility: In 1900, fully one out of every four people changed residence every year (compared to one out of five today)
- Star pattern: Proximity to a transit line affected access
 and thus affected land values. Prices for land along
 the transit lines soured, and the intersection between
 two major lines often became the nodes for newly
 decentralized functions, bank branches, grocers, butch
 ers. These created man centers, which had a major
 effect on bid-rent curves. It also tended to increase the
 Jistinguyeness of the CBD.

The growth of streetcar transportation created new forms of community and housing as well. The form often taken by this new housing was the streetcar suburb (Figure 5.10). Streetcar suburbs provided quick accessibility to the mass transportation routes, residents working downtown could walk out of



Figure 5.9 Schemn of streetcar city showing social segregation and limits of urban development. Source Authors

their house and down the street and catch the streetcar along the main artery. Other features include relatively narrow lots to maximize the number of households with convenient access to the streetcar routes, houses placed close to the front of the lot with a broad porch on the front face of the house, and the absence of an attached garage.

Recreational Auto Era

The third era of transportation emerged when the automobile became available to a large number of people. As related in Chapter 3, there were 26 million cars, crone forevery five people, by 930 Clearly the automobile changed interurban transportation, but what was its effect on the shape of cities?

Initially, the effect was fairly minor as there continued to be a large advantage for centrality. The automobile did open up tracts of land which had been bitherto maccessible since they were not serviced by a streetear line. One impact of the automobile was in expanding the radius of the city a bit. Those with the means to own a car could live up to 30 or 40 m les away from the CBD in certain cases. In the largest cities like New York, people began to live in places that transit systems could not go. More far-flung bedroom subarbs began to make an appearance, and the automobile was central to this. A related impact was in the development of the areas in between the transit spurs. These lines had created ridges of greater accessibility in the land value surface. The

Figure 5.10 Aenal view of a streetcar suburb of Chicago. Illinois

automobile allowed people to live some distance from a streetear line and still commute. Because parking was often difficult in the CBD, many people would drive to the commuter train station, and then take a train downtown.

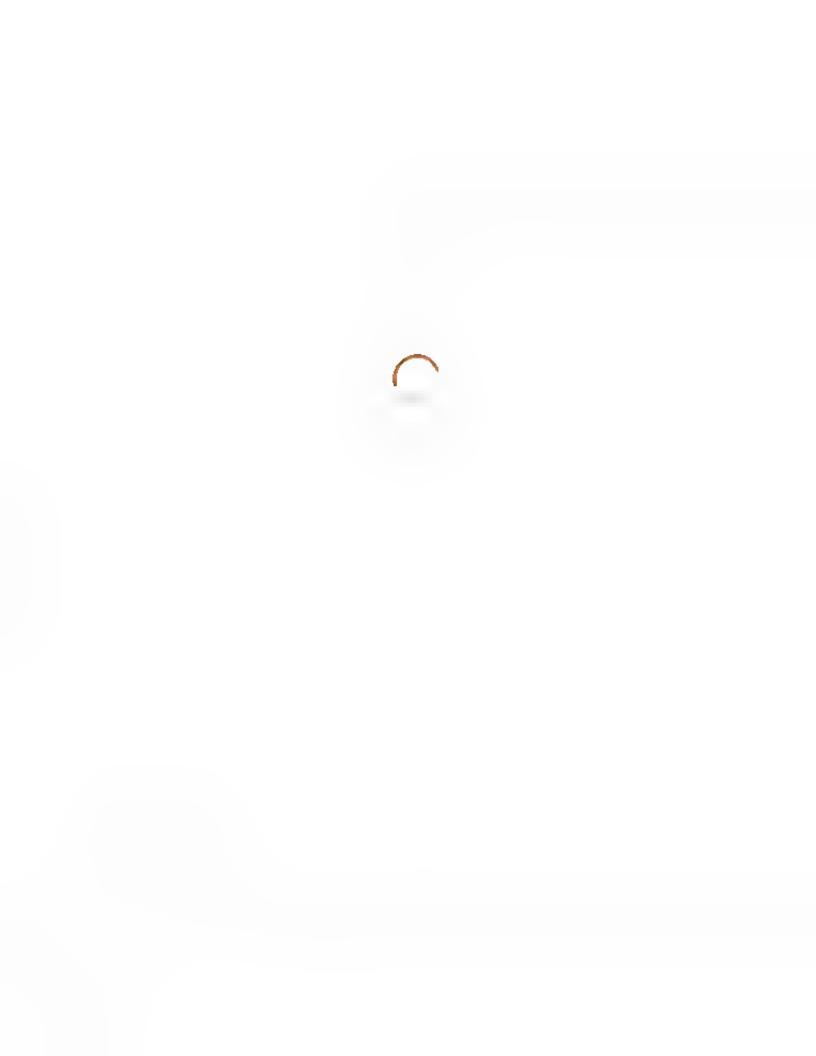
The greater accessibility of the automobile resulted in the conversion of a great deal of agriculture land to more urban uses. It likely also caused some of the major housing expansions of the 1920s. Thinking in terms of bid rent curves, as shown in Figure 5.11, we can consider the kind of curve from a time before widespread auto access. The urban ases. Tikely residential—are represented by the line R Agriculture uses are represented by the A Where the lines intersect is where the city turns into country side. With adveni of the automobile, things change The R line stretches out as does the A line a little. The new intersection is further out. So what of the land between the two lines? Here conversion pressures are going to be extremely intense and you will find a great deal of speculative activity. The farmland there now has more value as revidential land.

Automobile traffic did not initially damage the integrity of the CBD Most people still worked downtown, and the large number of people without cars stal lived near there. In fact, densities in most cities

peaked between 1930 and 1950. In 1950, over 60 percent of the metropolitan population was in city as compared to about 30 percent in 2010. The transit area still defined the dominant urban patterns, cars were still more used for out-of-town trips than as a necessary component in irban commuting.

Freeway Era

It was not until the 1950s that the automobile began to fundamentally after urban space. Three major changes had occurred at this time. First of all, huge numbers of soidiers returned home from World War II and the Korean War and had lots of habies. The federal government accommodated them with home mortgage assistance, especially under the Veterans Administration program. But the building of houses beforehand had been slow, and the demand for housing called out for a new type of developer William Levitt and his sons began to produce houses in a massive way. They bought farms close to cities and subdivided them into hundreds of single-family housing lots. Levittown, New York, came first, located on Long Island potato field. Here was 4000 acres. Each house was built on concrete blocks at 60 foot intervals, and the operation was done like an assembly line (see Chapter 8 for a more extended explanation).



We can discuss these trends with regard to the land value curve and the idea of accessibility. Consider how the logic of the PVI changed. The growth of limited-access highways and suburbs only reachable by automobile meant that more people relied solely on cars to get around as other forms of transportation languished. By mid-century fewer streetcars were built, and many streetear lines were even dismantled to make room for highways. Under these conditions, the traditional PVI was no longer the center of accessibility; rather, accessibility was found in places where automobiles could easily go. And as CBDs lost accessibility advantages, the effective land value of core city plots was reduced. Outside the CBD, in the so-called frame, the decline in effective land values could be even more precipitous. Manufacturing, for example, preferred green fields and low-slung factilities near the highways to antiquated factories on brownfields in the inger city

These changes in the nature of accessibility also meant that rather than just one center of accessibility, now there were centers wherever transportation routes converged. This transformed the city from a monocontric city based on a single core—the CBD—to a polycentric city or metropolis based on several centers, of which the CBD is but one. The edge city concept, discussed in Chapter 7, fits well within this schema, since the edge crites often represent the different centers found outside the city. The CBD itself is now just one center among many, and not necessarily the most important one.

ATTEMPTS AT CBD REVITALIZATION

Beginning in the 1950s, downtowns began to deteriorate as retail jobs left the core for outer city locations and manufacturing jobs decimed within the CBD frame and in nearby inner-city locations. Middle-and upper-income people left neighborhoods closer in for the safer, newer, more spacious bomes and green yards of suburbia, taking their buying power with them. Many consumer and business services and professional workers (e.g., doctors, dentists, and lawyers) remained downtown, but they soon

found their markets were mainly in the suburbs and therefore relocated. By the 1960s, CBDs had declined precipitously. Unless razed for some other purpose, downtown land contained buildings that no longer served aseful functions and suffered vacancies. Eventually, these properties turned into eyesores, creating negative external ties and lowering property values at 1, more

The consequences for central cities were catastrophic. Their tax base dropped sharply as people, industrial plants, and commercial activities moved away. Left behind in the central cities were a disproportionate share of the poor, who lived in aging residential areas. The infrastructure of old buildings, many vacant and in disrepair; narrow and poorly maintained streets, ancient and often leaking sewage and water pipes, and lack of "green" space gave many central cities and CBDs a desorate look. Many neighborhoods became associated with high crime rates, vacant stores, homeless people, marginal business, downscale morehandiss, and low-quality consumer services. The shrinking tax base prevented local govemments from taking actions that a more affluent municipality would normally take to maintain and improve the infrastructure.

By the mid- to late 1960s, downtown businesspeopie embarked on a number of revitalization schemes. Local governments have joined CBD merchants, bankers, financiers, real estate developers, planners, and even labor unions to bring about downtown revitalizations. Such coalitions of interest groups became known as growth machines. Federal agencies also became part of the growth machines. Their goal was to return prosperity to the once-nighty CBD

The results of these growth machine efforts across America are mixed and sdiosyncratic Downtown after downtown has attempted to "sell" an image of itself, often based on real or fictional themes from its past. For example, Detroit's Renatssance Center is a megasiructure surrounded by block after block of urban decay. This one project has not attracted investment into adjacent areas, and has brought about interpositive spillover or neighborhood effects. In contrast, Baltimore's Harbor Place (Figure 5.12) has



Figure 5.12 Battimore's Harbor Place.

been much more successful, building on the theme of Baltimore's port functions. But even here the decay and social deprivation to nearby communities has changed only modestly

Nearly all large ciaes today have developed and packaged unique complexes to attract tourists as wel. as to coax suburbanites downtown, if only for a concort, an art exhibit, or an ethnic festival, or for opscale shopping and fine dming. Some downtowns have developed enclosed shopping malls, such as the Eaton Centre in Toronto, the Horton Plaza in San Diego, and the Gallery in Philadelphia, Philadelphia also deve oped Penn Center, a corporate center in Center City Penn Center experienced a tall-building spurt in the 1980s when the law changed to allow skyscrapers to be built taller than the hat on the William Penn statue atop City Hall Casangs have also been popular, often enabled by state legislation. Cleveland just opened a new casino, which the city hopes will steer business. into the downtown (Box 5.1)

Many different strategies have been employed by large metropolises and small towns alike to make downtown areas more attractive and more economically and socially viable. Downtown business

OBD cannot compete one-on-one with the modern CBD cannot compete one-on-one with the affluent suburbs, their huge upscale shopping malls, their spacious industrial and technology parks, and their rapidly growing clusters of regional and national corporate offices and headquariers. Consequently, there has been a search for other alternative strategies to rekindle downsown prosperity, such as the following

- · Historic preservation and architectural integrity
- Downtown housing
- Convention center
- Improved parking facilities (machine space)
- · Transit improvements
- Waterfront development
- Nightlife and entertainment
- Casmos
- Custuras artractions
- Tourism
- New office construction and old building refurbishment and cyberspace witing
- Sport stadiums and arena
- Pedestrian spaces
- Police protection and presence

Naturally the success of these strategies has varied greatly from downtown to downtown.

BOX 5.1 DOWNTOWN CASINDS

What can a strugging city do to raise revenues? With factories long gone, downtown shopping a memory from the 1960s, and many offices now located in suburban campuses, several cities have come up with a solution downtown casinos? Once upon a time, gambling was confined to Nevada But this began to change as new laws permitted gambling to appear on Indian reservations, riverboats, and horse tracks—they call these "racinos." Some cities have embraced the possibility that their long suffering central districts might benefit from the shot of revenue that casinos might provide

Casinos con di have a fair amount of revenueraising potential. They often make good profits from gaming-minded tourists. Unlike other businesses, casinos don't demand lots of concessions and tax rebates. If done right casinos have the potential to spin off other businesses: hotels, restaurants, entertainment—all of which could spark a central city revival. Tax montes from diese operations prunt se to rebalance a crushing liscal deficit. It is for this reason that struggling titles like Detroit. Cleve and, Cincipant. St. Louis, and New Orleans

America's New Dawntowns

Larry Ford's America's New Downtowns (2003) offers considerable insight into the revitalization and reinvention of downtowns in U.S. cities. He points out that downtown activities have now expanded well beyond the traditional compact core and frame) CBD into more space-extensive land uses. Ford identified four major features of new downtown expansion and change in large American extes. The first he characterizes in shorthood as fun zones. These are entertainment and cultural attractions, including sports venues, museums, cultural centers, thenier and performing arts facilities, even zoos and harbor excursions. These so-culied fan zones cater primarily to suburbanities rather than inner-enty dwellers as well as to tourists.

Second, Ford points to historic districts as gaining momentum in American downtowns. The historic preservation movement, in part a reaction to massive urban renewal, highway construction, and "glass" have encouraged downtown casinos, after receiving the necessary statewide approval (Figure B5)

So do they work as advertised? Atlantic City was the first city to try this strategy, transforming a faded seaside resort into the east coast gambling mecca of the 1970s. But the promise of the Atlantic casinos—that they could reverse decades of poverty—was not quite met. The poverty remains and many of the casinos have gone hankrupt. What is more casinos can spawn some unsavery side effects—crime, drugs, and prostitution being most common. But the hope is that the positives ultimately outweigh the negatives. What the new downtown casinos do any better?

Much of this discussion depends on who benefits the most. The actual handing of the casino complex generates a great many temporary construction jobs. Once built, casino operators will realize large profits and casinos themselves will end up employing a great many people, albeil at fairly now wages. Casinos also generate significant tax revenue that can pay for public goods (though financier Warren Buffett has described this as a "tax on the ignorant"). A study by Lambert Dufrene, and Min (20,0) suggests that

box" office towers, made headway in the 1970s. Preserved areas and buildings were promoted as tourist attractions and new business sites. Again, these his toric sintiatives have done little economically to postively impact inner-city residents.

Ford identified a third recent change as downtown and near-downtown residential neighborhoods. Whereas the traditional CBD was almost entirely devoid of residential land uses, the past 25 years have seen an increasing "back to the city" or "back to downtown" increasing "back to the city" or "back to downtown" increasing and couples without children who work downtown and enjoy the downtown social life, as well as new migrants to the city Despite his recent downtown residential trend, the total number of people living downtown in American cities is still extremely low compared with the vast suburban population.

Downtown residential neighborhoods consist of three features. (1) gentrification, (2) conversion of oid industrial and warehousing areas into "lofts," and casinos indeed could be successful provided that they were located in large metropolitan areas. Furthermore, location

near the downtown was in fact more opt mal than location in the fringe. Other studies have shown inixed results.



Figure B5.1 Cleveland downtown castno

(3) construction of new condominium and apartment complexes. Gentrification involves the transformation of older, once gracious, and often architecturally unique houses, now occupied by low-income households, into modernized and elegant structures. When entire neighborhoods follow this path, the neighborhood is said to be gentrified or revitalized. The higher-income new occupants are quite different from the previous residents, who become displaced Only interesting fustoric neighborhoods are likely to undergo gentrification, and thus not all American downtowns have experienced this process.

The conversion of old, abandoned industrial areas into residences began primarily during the 1980s. These areas are not found in the traditional CBD but rather in fringe areas. Loft living often provides ample and relatively inexpensive space compared with comparable suburban housing.

New housing in the CBD core consists of high-rise condominates. Lower-rise apartment and townhouse complexes are most likely found in the downtown fringe. Some of the high-rise buildings are "mixed ase," including retail office, and hotel activities, in addition to residential functions.

SUBURBAN CHANGES

From 1960 to 1980 the large amount of developable land that became available in the suburbs because of increased accessibility was gradually filled in. Districts where industrial and commercial activities had settled prior to 1960 now attracted nearby residential development. Conversely, residential areas that had developed in the suburbs prior to 1960 subsequently invited commercial opportunities to locate during infilling. Again, the role of transportation access, especially freeway proximity, was vital to the infilling process.

Polycentricity in the suburbs became fully evident during this period. Maltiple cores sprang up, first

in the inner suburbs and later the outer suburbs. Many of these cores prospered around large regional shopping malls. As customers increasingly focused their retail shopping on these malls, service providers such as branch banks, restaurants, and doctors began to relocate there as well. The multipurpose shopping trips expanded into favorable access to many goods and services. At the same time, many office activities were attracted to these emerging retail and service concentrations. Here was open land, relatively inexpensive, tincongested, with ample parking Morcover, it was near workers' residences. Regional and even national headquarters of corporations settled into these suburban cores, often in high-rise office buildings.

During the 1970s, the short office buildings of the previous decade gave way to mid-rise office buildings of 5-12 stories. Hotels and convention facilities once confined to CBD locations thrived in the suburban business centers. Likewise, corporate headquariers, regional or national in scope, flourished in these locations, forsaking their traditional CBD locations. Circumferential freeways (beltways). facturated automobile and motor grack traffic around the metropolitan area, providing superior access to these suburban business centers. Many support services, such as restaurants, right spots, and medical centers settled in high income residential areas, some hidden behind "gated" communices where the entrance to the subdivision is guarded to exclude nonresidential traffic and people considered undestrable. These high-income areas, only a few of which were gated, were located within commuting proximity to these suburban business centers

In the 1980s, high rise/high tech became the order of the day. Office buildings became taller to accommodate more firms and more workers. Multi-story hotels crowded into the business centers. Many low-rise (often only one floor), high tech companies providing computer-related services settled at the periphery of these centers. Not only did the employment densities in these centers greatly increase during the 1980s, but the residential areas surrounding these centers swelled with the spread of apartments and condominums.

By the 1990s the true polycentric city began to take shape. These mature town centers functioned as fully stand-alone business centers and also as clusters of cultural, social, and recreational activities. Fur thermore, these centers increasingly took on maturing government functions. These mature town centers offer everything that the surrounding residents need. Only rarely do suburban residents need to travel to the CBD or to the inner city.

Although the evolution of suburbs into mature centers provided many benefits and conveniences, it also created several difficulties. These centers sprang up rapidly at locations where freeways formed interchanges. The rest, t has been a series of infrastructure and planning problems. This is especially true in those areas that had been fairly rural and now must accommodate new residents, workers, and shoppers. The volume of traffic in these suburban ceaters can overwhelm the capacity of the roadways, often narrow unsignaled farm roads. Trying to solve some of these problems can be difficult because these centers often lie astride more than one local political boundary. Several jurisdictions may be involved in any decisions that need to be made, and coordinating between them can create several logistical difficulties.

Another problem is the commuting mismatch between where people work and live. In general, there is no mismatch for the higher income workers in these centers. These workers typically choose to live either in relatively expensive single-family detached homes or in luxury condominiums, both of which are located close to the business centers. For the ess skilled elencal or blue-collar workers, however, the mismatch may be a serious problem. They cannot afford to live in the expensive neighborhoods that are located close to business centers. Therefore, they live far away and are commonly forced to commute ong distances. These less-skilled workers e ther live in the inner city and may have to reverse commute by bus, or live in the rural fringe and must travel by car because no public transportation is available

Before the latest economic recession, we saw a tremendous proliferation of high-rise condos in the inner suburbs near interstate locations and major employment concentrations, such as office parks

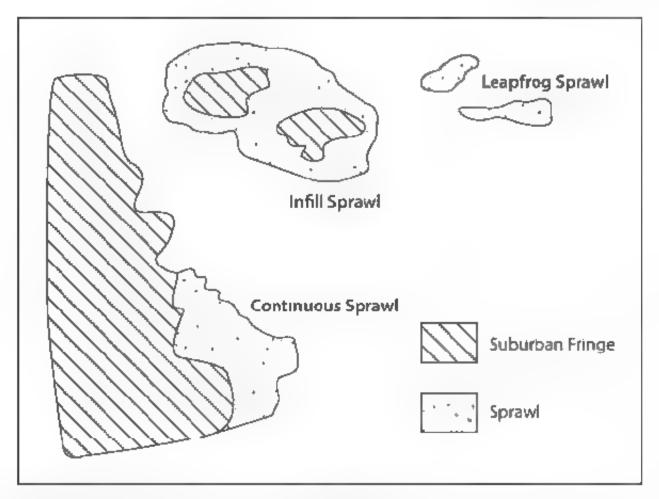


Figure 5.13 Three types of suburban sprawl, continuous, infil and leapfrog development. Source: Zeng. H., D. Z. Sur, and S. Li. 2005

and shopping mails. These condos, from 12 to 30 stories to 1, cater to higher income households. Thus, the population of the suburbs is gaining density, in contrast to the earlier view of the saburbs as scattered single-family residences. Most large American metropolitan areas are expensioning these big city suburbs. When the cost of land rises, real estate developers prefer to build upward. Thus, suburban vertical living leads to mixed-use activities, including quanty restaurants, specialty shops, and make services. Local governments often favor the development of such big city suburbs because of the greater tax base they provide

Of course, one big downside of all of this development has been the loss of open space brought about by suburban sprawl. Suburban sprawl is typically viewed by the media and the general public as a negative feature of metropolitan development. Although the issue of sprawl has generated many pro-and-con arguments, sprawl has been, in fact, a normal and natural result of suburban growth and expansion (Box 5.2). There are three types of naturally occurring suburban sprawl, continuous, intill, and leapfrog development (Figure 5.13). Continuous suburban expansion occurs when growth takes place just beyond an existing built-up suburban area. Infill growth represents expansion beyond

BOX 5.2 TECHNOLOGY AND URBAN GEOGRAPHY

Using GIS TO SIMULATE SUBURBAN SPRAWL

Suburban sprawl has been simulated using a computer model and applied to the urbanized area surrounding the lower Lake Michigan region, including the states of Illinois, Indiana, Michigan, and Wisconsin (Torreas, 2006). The model incorporates exogenous externall growth, as with migrants from outside the city system,

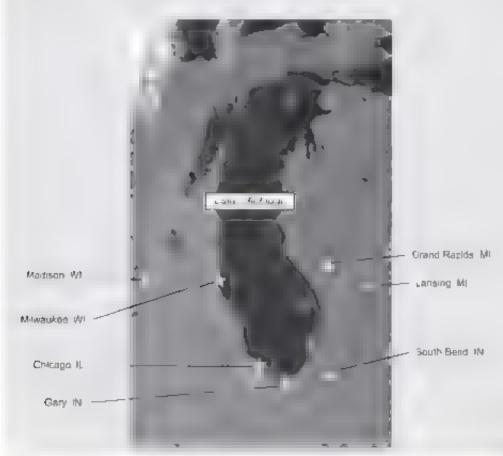


Figure BS.2 Sites in the Midwestern Mega opolis simulation model

a previously leapfrog cluster Leapfrog spraws refers to be process whereby underdeveloped land beyond the built up area is converted to suburban land use. These three processes characterize almost all American metropolitan areas and are intrinsic features of peripheral development in an automobile society.

The consequences of sprawl are numerous. For one thing, we are now completely dependent on the car. It is impossible to live without one except in a few cities. In 2009, 86 percent of Americans drove to work; 76 percent drove alone. Five percent

took mass transit, 3 percent walked, and 4 percent worked at home. There are now more than twice as many trips from suburb to suburb as from suburb to CBD.

The continued spread of cities has also led to less open space and more instances where metro areas merge into one another. This coalescence is termed a conurbation. We can see this in a number of places: Chicago—Milwaukse, Loi Angeles San Diego. San Francisco—San Jose. Some geographers have even begun to talk about a megalopotis: a vasi

and endogenous (internal) population growth or decline Sprawl is a newer form of the traditional urbanization process that occurs on the low-density periphery of urbanareas, a rather homogeneous group of single-family homes and ribbon commercial stores reflecting a precemeal and fragmented pattern of leosely planned development that is al most entirely automobile oriented.

Torrens's simulation model of suburban sprawl was applied to the lower Lake Michigan area, the Midwestern Metropolis (Figure B5.2). The model is designed to show how sprawl develops under conditions of population diffusion from a specific land unit to compact neighborhood areas at a given radius. The Torrens sprawl made, incorporates the notions of irregular growth. leapfrogging, and developments along roadways: "The simulated city-system began developing as a loose constellation of urban clasters in the immediate vicinity of Jeenain specified cities. The relative dominance of Chicago and urbanized lower Wisconsin is evident" , Torrens, 2006. p. 264, (Figure 85.3).

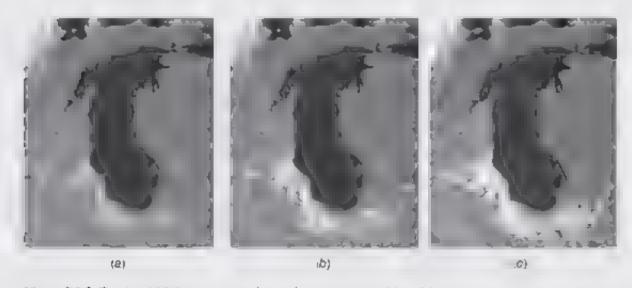


Figure B5.3 Simulated Midwestern sprawl over three stages. (a), (b), and (c).

urban corridor containing several metropolitan areas Box 5.31.

WRAPPING UP

The city is composed of a diverse set of functions, and these are organized in a particular way. Some and uses, such as industrial uses, tend to be found in certain parts of the city Other land uses, such as residential apartments, tend to be found in other

parts of the city. While government can and does influence where particular uses should appear, most of the distribution of land uses has to do with the economics of land value. As anyone buying property knows, a given parcel of land at one spot is priced differently than the same sized parcel at another spot, This has mainly to do with accessibility and partly to do with the amenities surrounding the parcel usell

Land value and the distribution of functions have changed historically as accessibility has improved,

BOX 5.3 Megalopoles

In 961, the French urban geographer Ican Gottmann published Megatopolis. This seminal book focused on the continuously urbanized area of the Northeustern Scaboard of the United States, extending from north of Boston to south of Washington, D.C. (Figure B5.4). The concept of megalopolis now refers to any of several continuously built up urban areas, such as the San-San region of California (San Francisco to San Diego), the Detroit-Chicago-Milwaukee area (MT-Chi-De), or the Charlotte-Atlanta Birmangham region (the Atlanta X), which also stretches north to Chattanooga and south to Macon, forming a kind of cross,

The malametropolitan East Coast (also known as Bos-Wash) emerged to the late 1950s as the most powerfally tubusized concentration to the world in terms of

political, economic, financial, and cultural influences (see Morrill, 2006). What created Megalopous was a densely packed series of big cines, stemming from the unitial arban network along the U.S. east coast. These cities were fairly distinct during the walking and streetcar era. But with the coming of automobiles and the manse suburbanization that ensued, the land values of the spaces between the cities skyrocketed and the land became less suitable for agricultural purposes. Suburbs and extress filled the gaps, with very small parcels of agricultural land for vegetables and dairy. But the upshot of this development was that the corridor came to represent the weathest concentration of land in the entire United States—from Goutmann's ame to now, Megalopolis contains the highest median income in the country.

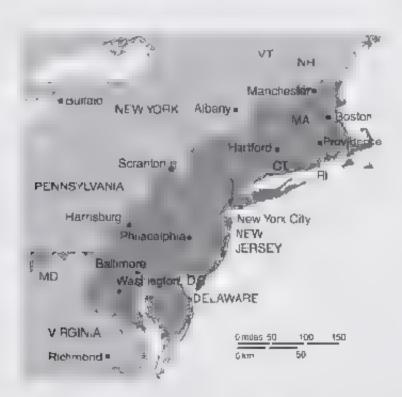


Figure B5.4. This map shows the extent of Megalopolus. Source: Authors.

and this has been driven by advances in internal transportation within the city. This progression from a walking to a streetcar to an automobile city fostered several transformations. First and foremost, the city has been able to increase in usable area, upwards of 50 times. Secondly, this expansion allowed for the articulation of land use areas-creating more and more functional separation. The development of the central business district was a notable consequence. Third, changes in accessibility completely made over what the city is today, as the central business district gave way to a dispersion of business districts located out on the periphery. The transfermations in the downtowns and in the sabarbs have been profound, but they are not immutable. The urban landscape will continue to evolve, and the changing logic of land value and accessibility is a key reason why



LANDSCAPES OF PRODUCTION

We will now discuss in a little more detail the struggle for existence.

CHARLES DARWIN, The Origin of Species, 1859.

Incustrialization—manufacturing—has been the principal engine that has driven city building since the start of the Industrial Revolution in Britain just before the turn of the nineteenth century. The Industrial Revolution spread from Britain to the United States and Canada, to Western Europe to Japan and Australia, and to other developed or industrial countnes. Today, it has come to flourish in the People's Republic of China, South Korea, Taiwan, and Singapore. In the United States, manufacturing cities, first located along the East Coast and later throughout the Midwest, grew to dominate the urban landscape, only much later spreading to Los Angeles and other select urban centers in the West and South. The past 50 years or so, however, have seen a fundamental change in U.S. manufacturing jobs as the advanced service economy has surged in importance. Not only has this transformation from manufacturing to services impacted different urban centers and different regions of the United States and Canada in particular ways, but it has also affected the location of the industrial landscapes within American metropolitan areas.

The purpose of this chapter is to lay out certurn theoretical and conceptual notions involving industrial location and locational change, including some of the locational logics of the postundustrial economy. We focus on specific empirical evidence of manufacturing and economic change, both at the interurban (between cities) and intra-metropolitan (within cities) levels. We begin by considering basic and nonbasic economic activities that relate to urban population growth. Next we provide a generalized historical overview of urban industriachange, focusing on the traditional industrial city, the twentieth-century industrial metropolis, and the postindustrial (advanced capitalist) metropolitan area. After reviewing conceptual frameworks for understanding the location of manufacturing at both the interarban and intra-urban levels, we provide empirical information on recent changes in the urbanindustrial landscape. We end the chapter by examining political economy approaches. The basic themes of this chapter relate to (1) the decline in manufacturing employment in the developed countries and the rise of the new advanced service economy, and (2) the different locational requirements of the industrial and service economy within metropolitan areas and within different regions of the United States.

UNDERSTANDING THE ECONOMIES OF CITIES

We want to start by making a basic point. People aring in cities must have some way to make a living. The most basic division of labor is between those economic activities that directly produce the means of survival (e.g., food), and those that do not. For cities, economic activity has an inescapable

impact on the spatia, form of the city cities must accommodate economic activities. As the nature of economies change over time, the nature of urban economic landscapes also necessarily changes. We begin this chapter by exploring some fundamental aspects of urban economic activity. Our intent here is not to present a course in economics, but rather to provide grounding for our later discussion of the impact of economic activity on urban landscapes.

Basic and Nonbasic Economic Activities

Every city must generate income as a result of its economic activities. At the most fundamental level, we can divide economic activities into two groups—basic and nonbasic. This dichotomy allows us to start to understand something about urban economies.

Basic versus Nonbasic Activities Basic economic activities generale income for the residents of the city. These activities export goods and services produced within the city for sale outside of the city—the engine for economic growth. Up until the last several decades, basic activities were typically associated with manufacturing—the making of things through a system of divided labor Today, advanced services are also an important part of basic urban activities.

In contrast, nonbasic economic activities circulate income within the city—rather than bringing an income from the outside. Nonbasic activities were traditionally associated with retailing and other consumer services, although we will soon see that this view has changed to the tide advanced services. Figure 6.1 illustrates the differences between basic and nonbasic activities.

All economic activity is classified as either basic or nonbasic, as the following equation shows:

$$TA = BA + NBA$$

In this equation, TA stands for total economic activity, BA stands for basic economic activity, and NBA represents nonbasic economic activity.

Multipliers One of the reasons that we make the Jistinction between basic and norbasic economic

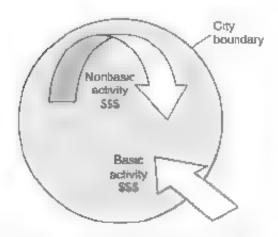


Figure 6.1 Conceptual diagram of the difference between basic and nonbasic economic activities. Source Authors.

activities is that basic activity is the engine for economic growth for the city. Without basic activity, no income will be brought to the city. In a very real sense, every resident of the city depends on the income brought into the city by the people working in the basic sectors of the urban economy Consider the hair stylist. His tacome is based on people coming into the shop and paying for the service. Without someone bringing in the income, the hair stylist cannot make a living. If the shop patron lives within the urban area, say, next door to the hair stylist's shop, the transaction would be considered a nonbasic activity, because money is simply being circulated. within the city. If, however, the clieat lives outside the urban area---perhaps a business person traveling from another city—the financial exchange is classified as basic, because money is being brought into the city.

One of the ways that basic activity supports other city residents is through primary and secondary multipliers. Together these mulaptiers are the impact of basic activity on the total employment of the city. We typically think in terms of adding one additional job in the basic sector to the city. For example, a manufacturing company located in the city that is doing well might hire an additional worker to increase production to meet rising demand. The multiplier can be shown using the terms in the first equation:

$$TA = m \times BA$$

In this equation, m is the multiplier—it tells how much of an overall impact this one extra job will have on the urban economy. For example, if there is no multiplier effect, adding 10 jobs to the local urban economy will not only 10 jobs. In this case, m = 1In reality, however, multipliers are always greater than 1. That means that some nonhaste activity will be supported based on the income brought into the city by the workers in the basic sector. The new work. ers will, for example, acquire housing (either renting or buying, they will have to est (buy groceries), they wall need transportation to work (either traing public transportation or buying a car). All of these activities require spending some of the income earned, but within the local area. These nonbasic activities circulate the income and generate extra jobs in the local economy If the factory hires 100 new workers, perhaps the grocery store will need to expand to keep up. and perhaps a new gas station will open up. So the total impact of one additional job in the basic sector is greater than that one job.

Circular and Cumulative Causation One of the reasons that we need to know soriething about multipliers is that they play an important role in an important theory called circular and cumulative causation. In this theory, primary multipliers describe the direct economic linkages between a basic activity and other local businesses with which it might do business. Backward linkages are those between a company and other companies that provide it with materials or services that it uses in its own production process (e.g., raw materials or equipment repair). Forward inkages are those in which a company sells its goods or services to other businesses. When forward and/or backward linkages are between businesses that are located with a an urban economy, they multiply the effect of growth—both apstream and downstream business wal benefit. Primary multipliers thus increase employment within a city due to direct connections between a company and other companies in the same city

Secondary multipliers are more ake our previous example—the money spent by workers employed in the basic sector circulates within the local urban economy, several times and for multiple ends, and supports the employment of nonbasic workers. For example, a basic worker who spends, say, \$100 on grocertes within the local metropolitan economy will contribute a portion of the \$100 to help pay the wages of the produce manager, who in turn spends a part of his or her wages on a fast food item, which contributes to the salary of someone who works at Burger King And so on. Eventually, if enough basic sector workers (and nonbasic sector workers) supported by them) are able to live in the city, new kinds of goods and services will be offered or produced. Think, for example, about car dealerships. Many small cities in the United States have Ford or Chevrolet dealerships—these companies sed standard U.S. made automobiles at relatively low costs. Not every city has a Lexus or an Audi dealership, however For these cars-more features, higher prices--a larger population is needed. A similar example may be medical services—all cities will have doctors, but only larger cities will have neurosurgeons. This relationship between the population of an area and the type of goods and services found there is called threshold. There needs to be a daeshold of population with enough spending power to support certain lands of higher-level economic activities.

When we put together primary and secondary multipliers, we have the basic insight of circular and cumulative causation-economic activities that bring income and jobs into a local urban economy feed growth, which then feeds more growth, and so on The process of economic growth is circular and cumulative—it keeps going, feeding off of itself Now, of course, you are thinking that this picture may be a bit too optimistic. You are correct. Smaller places, in particular, are economically vulnerable—if a local factory closes or has to cut production because their product is not doing well, the process will work in reverse. The grocer may have to lay off workers, a gas station may have to close, and eventually people may have to leave. It was once thought that when cities grew to a sufficiently large size—say 250,000 people—they were largely immune to the process working in reverse, at least with regard to population. With large enough populations, local

orban economies are going to be robust and be able to withstand downtums. However, large cities can and have experienced population loss, especially those in the old manufacturing areas of the Midwest, such as Buffaio, Chicago, Cleveland, Detroit, and many more

Putting these pieces together, we see that production, at a fundamenta, level, must be defined as basic economic activity—activity that generates income for the local community by exporting a product or service. As industrial capitalism grew and developed, manufacturing was considered to be a basic activity. Factories brought in new basic sector workers, who then supported local consumer-oriented service sector workers. Services were always thought to be local and nonbasic.

As we discussed in Chapters 3 and 4, however, the economy has changed radically since the 1970s. Although manufacturing still generates most of the nation's aggregate income, it employs a much smaller segment of the overall workforce. By replacing people with machines in the process of producing things, manufacturing employs many fewer workers than it used to be one sease, this process represents increased productivity, that is, producing more things with fewer people. In another sense, however, these economic changes present is with a difficulty if manufacturing no longer provides the jobs that support the entire local urban economy, then what does?

One answer is services—but not the way we have been talking about services so far. Here we refer to ndvanced services. For example, the grocery store is not a basic economic activity because it does not bring income into the city from outside (unless it is particularly large or offers specialty goods for which people from surrounding communities will travel). Rather, it primarily circulates income already present within the local urban economy. Indeed, as we have seen, the global economy increasingly relies on these high-end services to coordinate its far thing activities. So, instead of the factory worker being the basic sector worker who supports the local economy, lawyers and accountants and investors now play that role by a tracting customers from outside the

city. In some ways the multipliers associated with high-end service workers are greater than the multipliers associated with industrial workers because service workers make, and thus spend locally, more money. Thus, the shift from a manufacturing based metropolitan area to an advanced service-based center results in greater multiplier effects. Cleveland. Ohio, for example, which suffered massive economic shocks as manufacturing jobs were lost has now regained economic strength as the new advanced service sector has gradually achieved significance. Secondary multiplier effects are now bringing prospenty to many, though not all

Agglomeration

The concept of agglomeration economies holds a classic place in urban and economic geography. This classic concept formed a part of Alfred Weber's (1909) theory of the location of industries. The advantages of agglomerative locations have been applied both to interurban and intra-urban location of manufacturing, as well as more recently to services.

Agglomeration refers to clustering, or a locational concentration of activities. Economies is a symmym for savings. In other words, agglomeration economies reflect savings that can be achieved through a concentration of economic activities—manufacturing an our example. The result may be industrial districts or industrial parks.

Two types of agglomeration economies have been identified foculization economies and urbanization economies. In the former, savings occur when there is a concentration of similar kinds of manufacturing. Classic examples include steelmaking in Pittsburgh, automobile manufacture in Detroit, and cattle slaughtering (meat packing) in Chicago.

Urbanization economies are savings that accrue when there is a clustering of unlike netivities, as occurs in urban areas. Here the benefits are the result of sharing the urban infrastructure, such as highways, water and sewage systems, and a skilled workforce Urbanization economies are extremely important in understanding why industry concentrates in metropolitan areas, and helps explain the concept of industrialization in the evolution of American cities.

Thus, agglomeration economies reflect the reduction in average cost of a unit of production. In the case of urbanization economies, the cost reductions result from the shared urban infrastructure, should the same firm locate in a remote rural area, the firm would have to provide itself with the infrastructure components on its own—at a considerably higher cost. Before the massive transformation to the advanced service economy, it follows that the major U.S. manufacturing centers of the early and middle twentieth century were the largest cities. New York, Chicago, Detroit, Cleveland, Pritisburgh, Buffalo, Milwaukee

INTERURBAN INDUSTRIAL PRODUCTION AND LOCATION

In this section we briefly survey two conceptual models of industrial production and locations as they relate to urban areas and city growth; the growth pose model and the Stanback model. Here our interest is on manufacturing location and change among a system or group of urban centers.

The Growth Pole Model

The growth pole model is a way of showing changes in the location of manufacturing over time among a group of urban areas. The model may apply on a national scale as with the United States or Canada, or a regional scale as with the U.S. West, or at a state level as with Alabama or Michigan. An essentia, component of the growth pole model is that the location and productivity of manufacturing activity is inherently uneven geographically. There will be one key center and many smaller ones. The key center will be the growth pole, it will have a disproportronate level of industrial productivity and will expenence the most rapid population growth. Examples are Los Angeles in the U.S. West, Vancouver in the Canadian Pacific Southwest, Detroit in Michigan, and Birmingham in Alabama. The rest of the area outside the key urban growth center is the periph ery, a slow growth set of urban areas as well as nonmetropolitan rural regions. New and expanded

industrial enterprises will be attracted to the key or growth urban center, leading to further population growth and economic prosperity

At the same time, manufacturing establishments in the periphery may be linked to firms in the growth center through purchases of goods and services and as centers for the sale of goods produced in the key urban area. These kinds of links between the growth center or core of the region and the periphery are known as trickle-down processes. These are positive elements in regional urban industrial growth

Negativo elements are known as polarization processes, or the harmful effects of uneven geographical growth. Small manufacturing establishments in the periphery are often unable to compete with rival industries in the urban growth center. Typically, the manufac arring firms in the largest urban center wi. be most efficient, have lower costs, and be more high tech oriented. In addition, outmigration of workers from the periphery to the key urban growth center will drain the lagging region of its most highly skilled workers, who will be attracted to the high wage rate of the growth center Capital investment is much more likely to be made in the large, more profitable urban center, siphoning off funds from the small periphera urban centers and further retarding their growth. Thus, polarization implies a wide and often long lasting gap between the key urban centers and the peripheral centers, often more powerful than the trickle down effect.

The Stanback Model

Whereas the growth pole moder is a conceptual or theoretical model, the Stanback model is largely based on empirical observation and data. Thomas Stanback wrote several books in which he examined the transformation of the American metropolitan economies from production-based to service-based. The Stanback model is characterized by the radical decline in manufacturing, especially the loss of jobs over the last quarter of a century, and the corresponding explosion of jobs in business and professional services and in the nonprofit sector (Figure 6.2). There are two basic tenets of the Stanback model. First, metropoutan areas that were highly



Figure 4.2 The Detroit Packard Automotive Plant opened in 1903 and was closed in 1958.

specialized in industrial production experienced a slower and more difficult adjustment to the new service economy. The massive employment losses in manufacturing made it more difficult for metropotitian areas such as Buffalo and Cleveland to develop flourishing service-based economies. In contrast, metropolitan areas such as Atlanta and Phoenix which never were major manufacturing content, quickly became leaders in the new urban service economy and experienced major population growth.

A second tenet of the Stanback model is that major corporations require many kinds of advanced or producer services, including financial and legal services, advertising, accounting, auditing, marketing, and insurance activities as well as central administrative services (headquarters). A metropolitan area having a concentration of corporate headquarters thereby creates the need for these services, both from within the metropolitan area as well as from other large metropolitan areas around the United States.

The changes Stanback wrote about are referred to as structural changes, meaning changes that are permanent, not fleeting or temporary (Take a sheet of paper and fold it crisply down the middle. The crease cannot be removed no matter how hard you try to smooth it. You have created a structural change.) These structural changes of the past 45–50 years will not be reversed and, in fact, are being accelerated by the new information age. In summarizing

Stanback's model, we paraphrase and update a statement issued by the U.S. National Research Council, which was concerned about these issues more than 30 years ago.

Powerful and deeply rooted structural changes in the national and international economy over the past quarter of a century have transformed arban areas and the economic functions they perform. A new metropolitan system has emerged, with a growing polarization between urban places where corporate headquarters and producer services are concentrated and those urban centers that have been more specialized in manufacturing activities. (Hannon, 1983, p. 1)

The massive decline in the goods-producing sectors as providers of jobs in the U.S. metropolian economies has had major consequences for metropolitan areas in general Stanback (2002) has offered five key observations in this regard

- Increasing importance of services as a source of job creation
- Dominant role of inetropolitan, in contrast with nonmetropolitan, economies
- 3 Economic specialization of metropolitan areas such as in manufacturing, finance, health services, and resort ametaties as broken down by population size
- Wide-ranging differences in patterns of growth in employment, carnings, and neonic among metropolian areas
- Increased importance of non-earned income as a source of aggregate demand within metropolitan areas

In addition to the dominant growth of service jobs in large metropolitan areas, and the decline in manufacturing jobs, metropolitan areas are overrepresented in employment totals compared with nonnetropolitan areas. For example, metropolitan areas with a population of more than 250,000 account for 90 percent of all metropolitan employment. Moreover metropolitan areas with 2 million of more in population account for 40 percent of all metropolitan jobs. Metropolitan areas with important resort and retirement components are among the fastest growing centers, whereas metropolitan areas that emphasize manufacturing are the slowest growing centers.

Consider fast growth Charlotte, North Carolina, m contrast with slow-growth Youngstown, Ohio. Youngstown, in the core of the manufacturing belt, has lost manufacturing jobs and has not been successful in attracting investment in the advanced service sector In contrast, Charlotte, ranking only behind New York among the top banking centers in the United States, has the charisma to entice a variety of jobs in the advanced services. Because manufacturing in general is no longer a job creator, other sectors, including the non-earned income sector, contribute to aggregate demand. Non-carned income, including dividends, interest, rent payments, and transfer payments (Social Security, Medicare, Medicaid, and welfare), indirectly creates the demand for labor and thus new jobs.

Table 6.1 (flustrates the percentage change in U.S. employment among industrial categories between 1960 and 2010. Manufacturing employment dramatically decreased its share of the non-farm workforce between 1960 and 2010, from 31 percent in 1960 to 13 percent in 2000, and down to just below 9 percent in 2010. The largest increase is in services (a category that includes business, education, and health services), up from just over 13 percent in 1960 to 28 percent in 2000 and 32 percent in 2010. Other notable changes include the decrease in employment percentage in the federal government and the

increase in local government jobs. Retail jobs have also shown growth over this time period. Figure 6.3 shows the dramatic changes in the share of the workforce in each industrial sector over the last 50 years.

Manufacturing versus Service Cities One example high ghts the differences among large U.S. metropoutan areas, following the Stanback model. Corporate headquarters were classified into seven economic sectors for the 30 largest U.S. metropolitan areas. The percentage of headquarters in each of the seven sectors was calculated and the 30 metropolitan areas were grouped into two essential types, manufacturing centers and service centers. Table 6.2 shows the percentage distribution in these seven categories between Cleveland (a manufacturing conter) and Phoema (a service-based center). The basic differences between these two metropolitan areas are the high percentage of jobs in the manufacturing sector for Cleveland (49 percent) compared with Phoenix (18 percent) and (2) the high percentage of jobs in services in Phoenix (30 percent) in contrast with Cleveland (17 percent). Other differences between the two causes may be noted for construction, wholesaling, and finance, insurance, and real estate (FIRE). The significance of the contrasting percent age between Cleveland and Phoenix is that Phoenix.

Table 6.1 Changes in the Distribution of Employment across Industrial Sectors 1960, 2000, and 2010

•							
Industriai Sectors	1960	2000	2010	Change in Share: 1960-2010	Change in Share 2000-2010		
Manag	1.31	0.39	u.5u	-Lab.	G.I.		
Construction	5.32	5.12	4.24	- L.08	-c 89		
Manufacturing	30.97	13.04	8.84	-22.13	4.30		
TCU*	7.38	6.53	5.71	1.67	-0.82		
Wholesale	5.54	4.48	4.18	-1 36	0.30		
Retail	15.46	20.50	21.03	5.57	0.5+		
FIRE*	4 92	5.81	5.85	0.93	0.04		
Services	13.69	28.44	32.42	18.73	3.08		
Federal Government	49	2.16	2.28	1 %	G L		
State and Local Government	11.21	13.54	14 96	3.75	42		

Source 3. 5 Bureau of Labor Statistics

b Finance Tosurance, and Real Estate

^{*}Transportation, Communications (Information), and Litibues

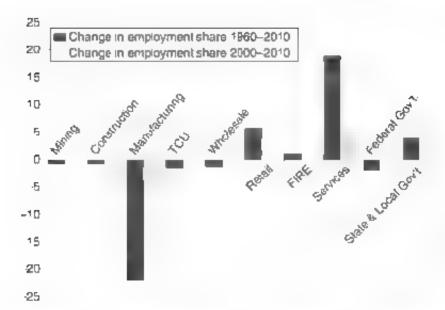


Figure 6.3 Change in the distribution of employment across industrial sectors. 1960-2010 and 2000-2016. Source Authors, based in data from U.S. Bureau of Labor Statistics.

the service-based center, made a smooth transition to the new advanced service economy and enjoyed rapid population growth. In contrast, Cleveland, the manufacturing-based center, lost many industrial jobs since 1970, had a difficult transition to the new advanced service economy, and the memopolitan area faced slow population growth, with the city of Cleveland actually losing population since 1970.

Figure 6.4 shows the regional distribution of manufacturing based and service-based U.S.

Table 6.2 Percentage Corporate Headquarters in Cleveland and Phoenix by Economic Sectors

Economic Sectors	Cleveland	Phoenis
Manufacturing	49.4	17 B
Services	17.1	29.7
FIRE	5.7	12.6
Construction	4.5	10.2
Why lesale Trade	11.4	17.8
TCU ^b	3.3	3.4
Retail	8.6	8.5
Total	0.001	100.0

Source: Compiled by author

metropolitan areas. All of the metropolitan areas in the Midwest emphasize manufacturing, except for the state capitals of Columbus, Ohio, and Indianapolis, Indiana. Likewise, the East Coast cities are manufacturing-based, except for Washington and Boslon, in California, only San Diego has a service emphasis. All of the mideontinent centers in Texas (Dadas Fort Worth, Houston, San Antonio) are classified as manufacturing centers. In contrast, within the Sunbelt, only Tampa is crassified as a manufacturing center.

Recent U.S. Manufacturing Changes The United States has been tosing manufacturing jobs for decades, though the media in general highlights industrial job loss as something aniquely contemporary, especially during the global economic errors of the late 2000s, "A manufacturing plant in Oshkosh, Wisconsin, has closed and 120 people are out of work!" And so on, Between 1994 and 2002, for example, the United States lost more than 3.7 million jobs in manufacturing, from 18.1 million jobs in 1994 to 14.4 million in 2002—a decime of more than 20 percent. During the same time period, the share of manufacturing jobs to all U.S. jobs dropped by approximately 6 percent, from 18.7 percent in

Finance Insurance and Real Estate

^{*}Transportation, Communications, Utilities

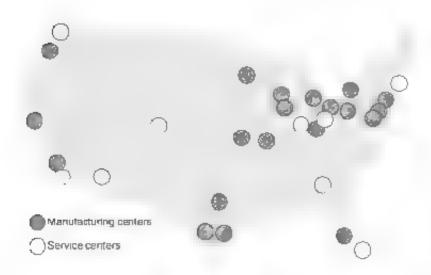


Figure 6.4 The largest 30 U.S metropolitan areas classified into manufacturing and service centers. Source Modified from Wheeler, James O. 1986.

1994 to 12.8 percent in 2002. The states with the highest levels of job losses from 1994 to 2002 are the Southern states of Alabama, Mississippi, North Carolina, and South Carolina—along with Michigan (the automobile industry), Delaware, and Rhode Island (Buwer, 2006).

Job losses in manufacturing in the United States varies by industrial sector and by region. For example, job losses in the iron and steel industry and in automobile manufacturing greatly impacted the Midwest, and other particular cities. In the South the hardest bit industries were textiles and apparel. The automobile industry—thanks in large part to foreign manufacturers—has seen employment growth in the South, somewhat offsetting other job losses.

What is nearly always forgotten, however, especially by the media, is the fact that U.S. manufacturing productivity is increasing. Figure 6.5 shows that productivity, measured as manufacturing output per labor hour, has steadily increased since 1950, and at an increasing rate since 1990—by 53 percent between 1990 and 2000 and by an additional 72 percent by 2010. The fact that manufacturing output continues to rise while manufacturing employment shrinks in both absolute and relative terms indicates that income inequality is increasing.

Manufacturing job losses have not been uniform across the United States. Bowen (2006) studied manufacturing job loss using data on trade-induced job loss. He found that the primary pattern of losses due to trade is correlated with U.S. areas of low



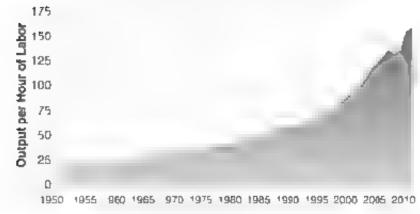


Figure 6.5 Growth in manufacturing productivity, per bour of labor, 1950-20.1. Source US Bureau of Labor Stat sees.

these poor areas that are most negatively impacted by the North American Free Trade Agreement NAFTA) are also the areas that are least competitive in attracting alternate industry. The states most negatively impacted by NAFTA are the Southern states of Alabama, Mississappi, North Carolina, and Tennessee. In the Pacific Northwest, Oregon and Washington have suffered from trade-induced job loss, as well as Maine in the Northeast. Despite serious problems in the U.S. manufacturing sector certain recent developments have led to high technology change, flexible production (Box 6.1) and just in-time de ivery (Box 6.2)

BOX 6.1 FLEXIBLE PRODUCTION

Henry Ford was the lind to develop efficient mass manufacturing production with the Model A and Mode. If Ford This system of mass production of identical automobiles allowed for economies of scale or savings per unit of production. This system came to be known as Fordism and was the dominant technologies, system for three or four generations. Fordism gradually spread from the United States to Canada, Western Europe, and Japan Fordism reflect on mass markets to consume the growing output of large, highly efficient manufacturing plants. At some point after approximate y 1980 consumption of mass-produced goods lagged behind global production capacity of these goods, leading to new technologies and a post-Fordism system of production.

This new system became known as flexible production, which reites on advanced computer software development. and high-quality telecommunications. Large, centrally controlled corporate and labor relations were transformed away from mass production to a flexible system whereby programmable tools and robots replicate a series of actions. to produce many, but somewhat different, products on the same assembly" line Whereas in Fordism, manufacturers made products that the wholesaler or retailer is/was more or less forced to buy, flexible production now allows the retailer—especially large retailers such as Waimart—to order the kind and number of products it wants from the manufacturer. For example, the Kroger grocery corporations, headquartered out of Cincinnati, can now tell Uniferent the maker of Brevers see cream, how many half pound orders of French vanilla, cherry vanilla, and chocolate it wants, as well as how many half-gallons of Kroger chocolate chip, strawberry, and natural vanilla it wishes to order. The flexible production system at Unitaverprocesses and produces the Kroger order.

In addition to the flexible manufacturing system that relies on an integrated system of design, manufacturer, and distribution, a flex hie employment system has come into place, in part supplanting anionized labor. This system: entails increased reliance on part-time and temporary workers and on subcontracting. Moreover, production lines are fed continuous information about external market demand. directly from large retailers to speed distribution of desired products straight to them. For example, a carpet sales office may communicate directly with a carpet mil as to how many square feet of heige carpet it wants de ivened in two days and how many square feet of light blue. The operator at the carpet mill, where there are very few workers but nglily flexible (programmable) carpet machines, pushes a button and now the machine will produce the requested X number of square feet of beige carpet, rolled up for easy transport by the 18 wheeler waiting for loading behind the carpet mid. Both large and small companies are involved in flexible production, giving consumers ever-wider choices.

As Scott (1988, p. 182) has noted, "modern capitalist production systems have evidently been evolving over the last couple of decades away from relatively rigid Fordist industrial structures towards more flexible forms of production organizations." The result has been a "pronounced displacement of the locational foundations of modern capitalism." Modern flexible production systems avoid older inner-city locations and seek out areas in the suburban periphery. At the regional level the Sunbelt metropolitan areas, which have had little direct contact with "big made-try" and labor unions, have become favored locations for flexible production.

BOX 6.2 Technology and Urban Geography

JUST-IN-TIME DELIVERY

Somewhat related operationally to flexible production is the practice of just-in-time IFT) delivery IFT is an inventory strategy that chimicales inventory and warehousing Instead of storing the strany parts that go into a finished product in a nearby warehouse to avoid running short of parts and thus having to shut down the assembly line. parts are de ivered just in time to be used on the assembly line. Huge warehousing inventory costs are eliminated. JTT depends on an efficient transportation system, whereby the same part, for example, may be delivered several times. in one day. The entire process is driven by a series of signals, or kanbana, that inform the production process when the next part is needed. Thus, new stock is ordered when the stock drops to the re-order level. JIT has proven to be extremely cost effective

Traditionally, manufacturers simply created products that were then made available to retailers, the manafacturers pashing the retailers (Figure B6.1). Led by retailing grant Walmart, retaders are now pushing manufacturers to create exactly and specifically what

the retailer wants and when and where it must be derivered. ast in time

Henry Ford in 1922 recognized the benefits of a small but adequate inventory, but the transportation system at the time (sall, rail-dependent) did not permit JFT delivery. "Wehave found in buying materials that it is not worthwhile to buy for other than immediate needs. With bad transportation one has to carry larger stocks."

JIT practices are common in the automobile industry. In Japan, and now the United States, Toyota Motor Corporation is well known for early III operations, as Japanese and was in short supply. Since it is extremely costly to shut down an assembly line, Toyota usually uses two suppliers of parts and forms long-term relationships with suppliers rather than short-term, price-based competitive tiex. The goal is to maintain high-quality relations with Toyota's entire supplier network.

Increasingly, manufacturers are moving to madeto-order products, instead of currying large stocks of finished goods, another example of the cetail push. Made-to-order manufacturing is greatly facilitated by the III ayotom. Kanhan!

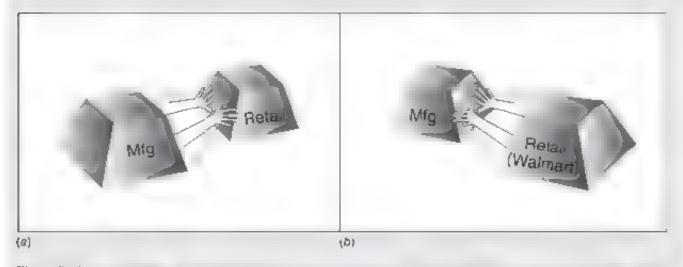


Figure 86.1 In the tradit mad mujastrial system, agnufactivess created products that were then made available to retail ers (a) However lied by such retail grants as Walmart increasing y retailers are telling manufacturers what they want how many in what color in what shape, and where and when delivery should be made, by Source, Authors

The 1980s Rust Belt According to Stanback, metropolitan areas with a high concentration of employment in manufacturing had a more difficult time in adjusting to the new service economy than centers that already had a strong service component. Thus, Cleveland, Buffalo, Chicago, and Detroit, for example, were slow to make the transition to the new service economy. When manufacturing jobs were lost, the workforce was generally ill-prepared to shift to services, especially advanced or producer services (Figure 6.4)

Figure 6.6 (a) shows the manufacturing employment change from 1980 to 1987 in one part of the so-called Russ Belt Indiana. Objo, and the lower peninsula of Michigan The term Rust Belt implies an area of aging factories, decreasing production of such products as steel and automobites, and diminishing populations. Cleveland lost 40,000 jobs and Gary, Indiana, the steelmaking center at the southern to pot Lake Michigan, lost 30,000 jobs. Notable losses also occurred in Cincinnati, Indianapolis, and Detroit Manufacturing job loss characterized all metropolitan areas in the region, except for South

Bend in Indiana, Columbus and Dayton in Ohio, and Grand Rapids in Michigan (Box 6.3).

In contrast to the job losses in manufacturing during the 1980s, service employment increased in all metropolitan areas in this region (Figure 6.6 (b)). The largest gains were in Detroit, Cleveland, which suffered the greatest job loss in manufacturing, was able to gain 50,000 service jobs in this period.

Comparison of Figures 6.6 (a) and 6.6 (b) shows the changes in the metropolisan economies in a part of the Midwest during the 1980s. Fortunately, the steady growth in service employment in subsequent decades has more than offset the decreases in manufacturing jobs. Consequently, the term Rust Belt is now mostly of historic significance, although industrial decline is present in all regions of the United States.

High Technology and the Rise of the Creative Economy

The urban geography of human resources or talent is highly concentrated in only a few major U S metropolitan areas. "Talent is strongly associated with high-technology industrial location, Talent

Manufacturing

Service

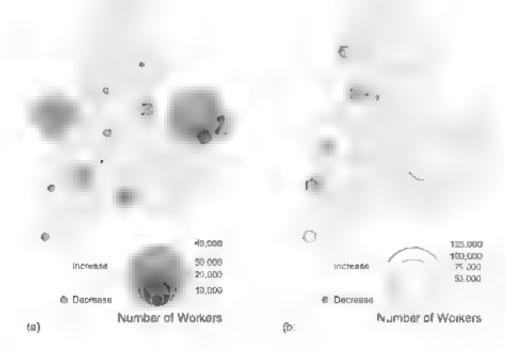


Figure 6.6 Change in (a) manufacturing and (b) service employment 1980-1987 by metropolytan area or inchana, (b) o and the lower peninsula of Machigan. Source Authors

BOX 6.3 RESTRUCTURING AMERICA'S RUST BELT CITIES

Wison and Wouters (2003) have focused on two themes in explaining how former Midwestern manufacturing Rust Belt cities became economically transformed during the mid-1980s and 1990s. Their two themes were (1) the accelerated competition among Midwestern cities in the new global era and (2) the role of entrepreneurial leadership and growth coal tions within those cities. These two forces gradually brought about the restricturing of the Rust Belt centers and the growth of service sector jobs. The shrinking, closing, and relocating of manufacturing jobs had massive impacts on city populations and municipal revenues

Table B6.1 shows the decline in population and it manufacturing employment for the cities of Cleveland and St. Louis between 1970 and 1990. The city population in both Cleveland and St. Louis dropped by over 30 percent. The number of manufacturing jobs in the two cities combined dropped by more than 120,000, a 52 percent decline. Significant in this decline were the closure or relocation of major manufacturing plants, such as U.S. Steel in Cleveland and Chrysler Plant No. 1 in St. Louis.

Rust Belt cities began seriously competing for new jobs and investments as manufacturing employment dramatically declined. The Midwestern eities had to compete on a global scale, recognizing that investment decisions made in New York, London, and Tokyo, as well as a host of regional centers, impacted their economic recovery in the rapidly evolving new service economy. These cities had to discover and highlight their strengths and

comparative advantages, the Mississippi River in St. Louis and Lake Brie in Cleveland, for example. The day image was important in global competition. Jobs were being created in advanced services, such as financial and legal firm, and in high-technology enterprises. White-collar marketing grew all across America, raising demand for quality housing, entertainment, and restaurants, for example

Entrepreneural leadership became manifest through growth coautions made up of builders, realtors, developers, the media, government actors such as mayors, and dominant corporations. In St. Louis, for example, Anheuser Busch, Monsanto, and Ralston Purina played promunent roles. The leadership involved cooperation between public and private interests. The results were efforts at downtown revitalization, inner-city gentrification the transformation of the CBD to advanced service employment entertainment museums, and cultural venues; the construction of sports stadiums and the sport complexes, and often waterfront development. The purpose was to market a nourishing physical, business, and social environment that would attract investment and create jobs.

The result of (1) accelerated competition among Miawestern Rust Belt cities in the new global economy and (2) innovative entrepreneurial leadership within public-private growth confitions has been that the former Rust Belt either have established a much stronger economic base and have gradually restructured themselves into the contemporary service sector.

Table B6.1 Population and Manufacturing Employment Change in Cleveland and St. Louis

		eland	St. Louis	
	1970	1900	1970	1990
Population	75 046	505.616	662.236	396 685
Manufacturing Employees	3 000	59 130	97 600	48.700

Source, We som, David and Jarad Wouters, 2013.

and high-technology industry work independently and together to generate higher regional incomes? (Florida, 2002, p. 174). Certain metropolitan areas attract talented people, especially highly educated people (human capital) who are mobile in their choice of location. There is a strong relationship

between amenutes or quality of life in selected metropolitan areas and their ability to attract talented workers, as well as the attraction of higher wages. Both market (economic) and nonmarket (quality of life) forces operate in these cities. Richard Florida (2005, p. 54) provides an especially insightful

Table 6.3 Software Workers per Million by Metropolitan Areas

Rank	Metropolitan Areas	Software Workers per Million		
ı	San Jose, CA	24.348		
2.	Washington, D.C.	22,562		
3	San Francisco, CA	17,633		
4	Boston, MA	16.871		
5	Atlanta, GA	11.633		
6	Dallas Fort Worth, TX	11,345		
7	Denver CO	1.,258		
8	Oakland, CA	9,700		
9	Manaeapolis, MN	9,408		
10	Rate gh-Durham, NC	9,309		
11	Austin, TX	9.157		
12	Seattle, WA	8,366		

Source Florida, Richard, 2005.

measure of talented people with his index of the number of software workers per million population by metropolitan area (Table 6.3). It is the same familiar list of centers that are the leaders in the advanced service economy, with San Jose (Silicon Valley) and Washington, D.C., leading the parade

Figure 6.7 shows the number of professional and technical workers per thousand population in 50 U.S. metropolitan areas. Eight metropolitan areas stand

out: Atlanta, Austin, Denver, Minneapolis-St. Paul, Richmond, San Francisco, and Washington, Mighty Los Angeles, the nation's second largest metropolitan area, ranks 50th in per capita professional and technical workers, due largely to a lesser-skilled Latino population. The most educated metropolitanarea in the United States is Washington, D.C., with approximately 42 percent of the population holding. a backelor's degree or above in 1990. Five other metropolitan areas had more than 30 percent of their population with bachelor's degrees or above: Atlania, Austin, Boston, San Francisco, and Seaule. Las Vegas, ranked 50th, had just 14 percent of its population holding bachelor's degrees or above. Not only is talent strongly associated with the location of high-technology industry, but high technology industry generates regional population growth and high metropolitan and regional incomes.

Many scholars and policy makers focus on attracting creative industries, like culting-edge engineering, software and game development, and mobile technologies. If the industries located in a city can become successful in innovating, the city's economy will prosper. Innovations can be in the processes used to develop and produce goods and service, and they can be in the products themselves. One measure of innovation is patent activity, though

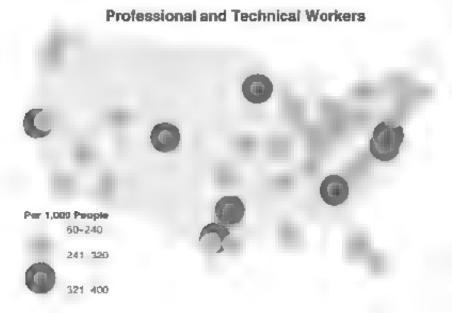


Figure 4.7 Professional and technical workers per 1,000 people for 50 U.S metropolitan areas. Source Authors

recent trends suggest that an increasing share of patent applications are filed, often as a key goal of merger and acquisition activity by corporations who are trying to muscle out their competition. Even so, patents remain a useful indicator of innovative economic activity. The traditional geographic locus of patent activities was in metropolitan areas in the U.S. Northeast and Midwest, reflecting the strength of the traditional manufacturing belt. Johnson and Brown (2004) found that there has been a regional "inversion" in patents granted the 25 years between 1970 and 2000. The strength of the Pacific Northwest Microsoft) and California (many computer-based companies) became the hotbeds of innovations. The Northeast has made a strong resurgence over the last decade and is now providing competition to the West Coast. The bicoastal pattern is clearly evident in Figure 6.8, which shows that patent applications are heavily concentrated along the West Coast, especially in the San Francisco Bay Area, and in the Northeast, with New York once again a major center of innovation. The relative decline of traditional desktop and laptop computing and the rise of mobile and Internet-based technologies can be seen. A very similar pattern can be seen when venture capital activity is mapped (Figure 6.9)

Richard Florida has expanded on these notions to argue that urban economic growth now depends on the ability of cities to innovate rapidly in a globalized world. He argues that while creative industries remain important facets of urban economic growth, what really matters is the concentration of creative workers, regardless of the industries in which they work. He notes that creative workers increasingly want to live and work in urban places that are attractive, dense, and provide a high quality of life. He argues that cities can become attractive to the creative class by promoting the arts and

Metropolitan Patent Activity, 2006-2011



Figure 6.8 Patent, applications by metropolitan area, 2006–20.1. Sounce. At thors, based on data from http://www.brookings.eu.u/research/orieractives/10.3/metropatenting.

Venture Capital Investment, 2011 Wurteste New Hover Boston **Unneapols** New York Arippi Claveland Transfer Макван Nomero Physidecoln New Jersey Serde Place Newar Chicago Columba Meldlessu Carcelle Daidand Bullerson Pittshurgh little medalni Washington Did Cincinnet Kanppe Criv \$1 cours San Jose Orange Halalgh Oneham County Los Angeles Allarea Dallas San Diego Equity invested (\$ Millions) Criando \$10,000 Miami \$1,000 Note: Data include first half of 2012 Data Source. The MoneyTree Report by PwC and NVCA as S100 reported by http://www.ritensworks.org

Figure 4.9 Venture capita, investment, 20.1. Note: Data no ade first half of 2012 Source. Authors, based on data from The Money Free Report by PwC and NVCA as reported by http://www.newswirks.org

encouraging a tolerant society, especially for guys and lesbians. By stressing the promotion of creative occupations in all industries. Florida argues that all types of urban areas can enhance their competitiveness. Critics of Florida's work and advocacy point out that there are urban areas that are attractive places for creative types to live, but that do not have a thriving economy. They worry that Florida's ideas will lead to wasteful public expenditures on "lifestyle" projects that have attle chance in the end of attracting the desired result.

It is too early yet to know for sure how the urban system will change in response to Great Recession of the late 2000s. We do know, however, that manufacturing suffered another major setback. While the share of manufacturing jobs decreased by a major amount between 1960 and 2000 (from 3, percent

to 13 percent), the total number of manufacturing jobs increased from 16.8 million to 17.2 million. Between 2000 and 2010, however manufacturing's share of the economy fell another 4 percentage points and the total number of jobs fell by 33 percent (to 115 million). We also know from recent work that the anemic recovery is concentrating high-wage and low wage jobs in different metropolitan areas. Figure 6.10 shows that high-wage 10b growth is strongest in the mid Atlantic area, specifically in Washington, D.C., and in the San Francisco area. The three largest metropo tan areas of New York, Los Angeles, and Chicago show only modest growth in high-wage jobs. Figure 6.11 shows that low wage. jobs are growing faster than high wage jobs overall, which reflects the growing problem of income and wealth inequality. The geographic pattern is also

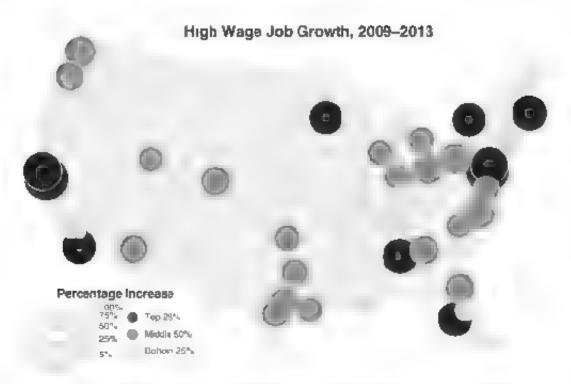


Figure 6.10 High Wage Job Growth, 2009–2013. Summe: Authors, based on data esomated from Florida, Richara, 2013b.

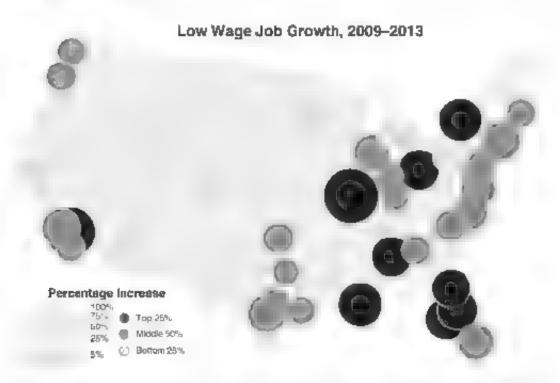


Figure 6.11 Low Wage Job Growth, 2009-2013 Source. Authors, based on data est mateut in millionida. Richard, 2013a.

very different—the metropolitan areas with the most robust growth in low-wage jobs are St. Louis and Riverside, California. There are many second and third tier metropolitan areas that show strong growth in low-wage jobs, including Columbus, Olno, New Orleans: Orlando, Florida, and Rochester, New York,

INTRA-URBAN INDUSTRIAL PRODUCTION AND LOCATION

In this section, we shift the scale of our focus to examine the location of industry-manufacturing and other economic activities—within urban areas. We have described the decentral zation of both manufacturing and service-based activities in other chapters. Here, we introduce two conceptual ways of understanding changes that have been occurring in the location and production of manufacturing within cities and metropolian areas; the Wheeler-Park model and the product life-cycle model. Whereas these are general models identifying major structural forces relating to the locational change of manufacturing within metropolitan areas. Walker and Lewis (2005) focus on three key functional processes that account for the spread of industry from central city to suburban locations. First is urban geographical industrialization, that is, urban expansion has its

base in industrial growth and capital accumulation. That creates new places attracting a labor force and new technologies, resulting in industrial districts in suburban locations. A second factor is the investment in real estate, where profits are made on the suburban fringe that lead to industrial concentrations, as well as to residential development and highway improvement. Third is the role of political processes, guided by business and government leaders. Thus, Walker and Lewis shed light on the processes that underpin the general Wheeter-Park and the product cycle models.

The Wheeler-Park Model

The Wheeler-Park model captures the basic changes in manufacturing location within metropolitian areas since approximately 1850. It focuses in particular on differences and similarities between central cities and suburbs (Figure 6.12). The Wheeler-Park model involves five phases. Note that the curved lines on the figure, one black and the other gray, follow similar trends but represent different periods of time. These lines represent the volume or intensity of central city and suburban manufacturing, respectively, as measured by employment totals or by productivity (number or value of units produced). The horizontal acus measures time.

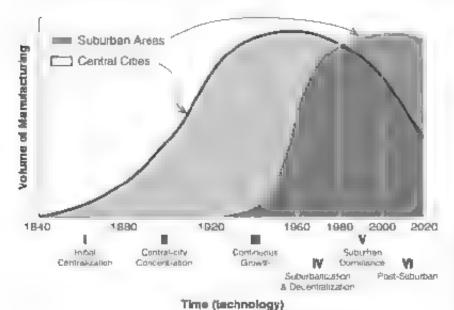


Figure 6.12 The five-phase Wheeler-Park model of idealized mempolitan manufacturing locational change. Source Modified from Wheeler James O. and Sam Ock Park. 1981

The back curve in Figure 6.12 shows trends in manufacturing in the central city Recall from Chapter I that a central city is the political municipality or the area enclosed within a city boundary. The metropolitan area includes the central city and the suburbs, with the suburbs usually occupying a larger geographic area than the central city.

The Wheeler Park model starts with the *initial* centralization phase in which manufacturing first comes to locate in the central business district (CBD) or its environs. Manufacturers favored a downtown location because it was the focus of rail lines and commercial activity. It was also accessible to the city labor market. The time frame for initial centralizations is approximately 1850-1880. Many cates during this period were oriented more loward commercial than to industrial activities.

The second phase, central city concentration, represents the heyday of the railroad and the period (1880–1920) when certain large cates of the East Coast and the Midwest developed into preemment manufacturing centers. Large East Coast cities had Atlantic port advantages (New York, Philadelphia,

Baltimore, and Boston), and most Midwest industrial centers had port accessibility via the Great Lakes (Chicago, Detroit, and Cleveland) or the Mississippi and the Ohio River systems (St. Louis, Minneapolis, and Cincannati) Industry concentrated not only in the environs of the CBD, but also along rail lines emanating outward from the CBD but still in the central city, ong before the suburbs appeared

The third phase is labeled continuous growth. In one sense, this third phase is a continuation of the second phase, but in another sense it is not (see Figure 6.12). Significantly, this phase did not develop from the initial emergence of manufacturing in the suburbs. During this third phase, which asted from approximately 1920 to 1960, central city manufacturing reached its peak concentration. The notor truck was increasingly replacing the rail. Industrial centers located in the interior of the United States were just beginning to emerge (Indianapous, Birmingham, and Dallas) (Box 6.4). Note that central-city locations were dominant for manufacturing activities, reflected in the lightest shading in Figure 6.12.

BOX 6.4 REVITALIZING CITIES THROUGH SPORTS VENUES

Almost all large cities turned to the development of sports facilities to revitalize downtown development. As Austrian and Rosentraub (2002, p. 550) have noted, "Bakimore. Buffalo, Cleveland, Da.las, Dayton, Detroit, Los Angeles. [and] Ok.ahoma City ... used sports as an anchor for downtown] redevelopment? This construction boom that began in the late 1980s accelerated in the 1990s and continues apace today. This expansion "can be attributed to league expansion, franchise relocation, and the real or perceived need for new facilities for existing franchises" (Newsomeand Comer 2000, p. 105). Thus, "instead of competing for auto plants, cities competed for sports teams" (Tumer and Rosentraub, 2002, p. 489). Further, "corporations found they could latch a ride on the enthanasm for downtown sports facilities by purchasing naming rights to stadiums and ballourks" (Turner and Rosentraub, 2002, p. 489). Coors Field in Denver is one example. Table B6.2 shows the

intra-urban locations of stadiums, coliseums, and hocker risks as of 1997. Overall, the downtown locations account for more than 50 percent of the combined venues for the National Football League (NFL), Major League Baseball (MLB), the National Basketball Association (NBA), and the National Hockey League (NHI

Table B6.2 Intraorban Locations by Sports, 1997

Location	NFL	MLB	NHA	NHL	Total	Percent of Total
Downtown	14	9	18	17	58	51.3
Central City	4	12	- 6	4	26	23.0
Suburbs	12	7	- 5	5	29	25.7
Total	30	28	29	26	113	100.0

Source: Newsome and Comer, 2000, p. 1,3

In the fourth phase, suburbantzation-decentralizaaon, manufacturing exploded in the spacious suburbs and began to decline in the congested, obsolescent central cities. The growth and expansion of the suburbs during the period 1960-1980 was similar to the central city growth of the 1880-1920 period of rail dominance. Some plants closed in the central city and relocated to the soburbs. A majority of suburban factories, however, were new plants that started operations in the suburbs. These firms depended on motor tracks to supply raw materials and take away finished products. Even though manufacturing remained more concentrated in central-city locations during much of this period, the darkest shading in Figure 6.12 illustrates that the suburbs were catching up quickly.

The fifth phase of the Wheeler-Park mode: is termed suburban dominance. This phase has been characterized by further rapid decline in central city manufacturing and the ascendancy of the suburbs, illustrated in the figure by the medium shading High-tech manufacturing principles have become the norm. A sk...ed suburban workforce is access: ble, leaving central city residents isolated from the new suburban jobs (see Chapter 5). The suburbs encompass vast tracts of low cost and, often over many counties, in contrast to the typically more eircumscribed central cities. This suburban dominance, m place since at least 1980, continues unabated into the new millermum, though some urbanists suggest that we may be entering a post-suburban period. Florida (2013a) argues, for example, that economic innovation is shifting away from suburbanareas, even those that have long held revered status as growth poles of the new economy, like Silicon Valley, which is located in the suburbs that stretch between San Francisco and San Jose. Venture capita. activity in San Francisco city zip codes is stongly competitive with zip codes farther south in Silicon Vailey. He also argues that very dense urban tocations, like Brooklyn, New York, are also epicenters of innovative and creative activities, and that subtrban high tech enclaves of past decades may need to adapt or lose out.

The Product Life-Cycle Model

The second conceptual approach to understanding the intra-urban location of manufacturing is the product life-cycle model. The cycle involves four phases, with each phase associated with a different kind of intra-metropolitan or nonmetropolitan location. The phases are (1) introduction. (2) growth, (3, maturity, and (4) decitne. Each phase is characterized. by a different mux of production costs, revenues, and profits, based on the idea that products have inherent life cycles. Figure 6.13 shows the four phases, plus a period of product development that may or may not precede introduction. Figure 6.14 shows the relative importance of a variety of types of production costs in each of the three main periods that, in turn, gives rise to the different location preferences of manufacturing firms.

In the initial phase of the model, a new product is being developed and improved upon. This introduction phase is also the riskiest phase as many new products are not successful in sustaining profits. The most important costs during this phase comprise (1) research and engineering in the creation, development, and upgrading of the product, and (2) urbanical tion economies. Urbanization economies represent cost savings that result from an urban location in which the urban area provides many infrastructural advantages, including made and highways, water and

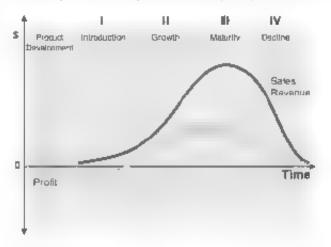


Figure 6.13 Stages of the product life-cycle model Source: Authors

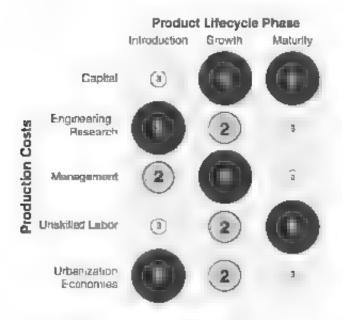


Figure 6.14 The relative importance of production costs in each of the three main phases of the product I fe-cycle mode. Source: Authors

sewor services, access to a workforce, the provision of necessary consumer retail and other services, and access to business services. Relatively lattle capital is required during this phase, only fouring management functions are needed, and unskilled labor is not in demand. The firm in this initial risk phase relies on this urban infrastructure as a basic necessity and as a way to minimize cost. Not surprisingly, firms in this mitial phase favor an urban location.

The second phase is the growth segment of the product cycle. Assuming profits and success during the introduction phase, the manufacturing firm now finds demand for the product to be high in the growth phase. The firm becomes highly profitable. In some instances, the innovations achieved in phase one generate super profits in the growth phase. Some firms may find themselves as part of an oligopoly with respect to their product. An oligopoly exists when only a handful of firms provide the product because of severely restricted competition. These

firms have simply jumped ahead of their potential competitors

In this growth phase, urbanization economies become much less important, as the firm may seek out a production location on inexpensive suburban land. A new and enlarged production facility is needed. I kewise, little additional research or engineering work is required. But management of this rap d growth is what now becomes important. Management costs suddenly use, as more levels of management and sales become essential to continued success. In addition, greatly enhanced capital sources are needed to produce high volumes of the product Other necessities include plant enlargement, added space, and material and product transportation. A location at the edge of the metropolitan area is typically sought out, not a location in or near a suburbanbusiness center

In the third phase of the product cycle, the firm may be said to become mature. The product has become standard.zed, with little innovative research and development improvement. Competition has ncreased as other firms are producing essentially the same product. Instead of amassing super profits. as during the growth phase, the firm now achieves normal profits in a kind of market equilibrium. In this mature phase, production costs shift once again. Capital is still required to maintain the day-to-day operations. However, unskilled, low-paid workers are now essential to the success in this third phase. Because the product is standardized, unskilled workers can carry out the production process. Management functions shrink in relative importance during the routine operations of the third phase. The need for an urban location disappears. As a result of the shifts in the relative role of production costs, the firm might relocate to either a nonmetropolitan or an out-of-country location. For many decades rural areas in the U.S. South supported manufacturing firms in the mature phase through a branch plant economy in which the branch plant headquarters were located in New York, Chicago, or Atlanta, for example. More recently, production facilities in Mexico and overseas offer labor at a fraction of the cost of using the U.S. workforce, creating a significant negative impact for many workers. Remember that these overseas operations work best for firms and products in the maturity or decline phases of the life cycle, for example, textiles and apparel

POLITICAL ECONOMY APPROACHES

Most of our effort so far in this chapter has been to focus on traditional ways of understanding the organization of urban economic and industrial landscopes. However, as cities have changed tremendoubly in the last two and three decades, so have the methods and research approaches in the social sciences. In this section of the chapter we review some alternative notions about urban landscapes. of economic production. In particular, most of the ideas we have discussed already in this chapter begin. teither expacitly or implicitly) with the assumption that groups and individuals make economic decisions. in a rational manner. In contrast, the approaches we discuss in this section of the chapter do not rest on this assumption. One approach in particular that rests on different assumptions can be called political economy. This perspective, which was first developed in the 1970s, attempts to understand the deeper structural relations that create the observable economic landscape, though the foundations for this viewpoint go back many decades. Although neoclassical economics identifies economically rational decision making as the primary force, political economy perspectives do not agree, as is evident in the summary of the following basic concepts:

Basic Concepts

There are several basic notions common to postical economy approaches to urban geography. First, cities are embedded within a larger structure, specifically, the structure of production that defines the role and character of cities. North American cities are embedded within a system of capitalist economic production. Over the last several centuries, capitalism has taken on a series of different configurations, called modes of production. The

mode of production includes basic economic relations, like methods of combining materials with labor to produce products. The mode of production also includes the broader social relations that make production possible. The primary social relations concern the ownership and control of the means of production, that is, the factories, machines, and companies. There is an inherent conflict with n capitalism between those who own (or control) the means of production, and the laborers, Most often this conflict is referred to as class conflict. Importantly, this inevitable class conflict from time to time manifests itself as crisis in the system that can sometimes have large impacts on the mode of production. In other words, changes in the broader structures of capitalist production are brought about by the expression of crises that emerge from the very structure of capitalism.

Crises emerge from class conflict, but they take different forms. One of the key themes of political economy theories is that capitalists are motivated by a need for capitalist accumulation, which is a basic motive of human economic behavior. Capitalist accumulation depends on the ability of capitalists to extract surplus value from laborers. In other words, the economic value of products produced by labor ers must exceed the economic cost of paying wages to laborers. Herein hes the conflict. On the one hand, if laborers are paid a wage that reflects the value of the products they produce, then capitalists reap less profit. On the other hand, if labor is not paid enough. to buy the products they produce, then the demand for these products wal be inadequate, and capitalists will lose profit. Capitalists face competitive pressure to keep wages low, but if low wages become pervasive enough, the system experiences a cassis of underconsumption. Other crises also plague capitalist production, including fiscal crises that emerge from the need for governments to take an increasingly acuve role in managing economic affairs.

Circuits of Capital

David Harvey is one of the primary proponents of political economy approaches to arban geography He argues in particular that the political economy approach is relevant to understanding the urban space economy (Harvey 1989). He recognizes that some of the basic categories are more complicated than previously discussed. For example, not all capitalists are the same. Some make money from participating in manufacturing, whereas others make money by participating in the global financial market. These groups differ in their behavior, their needs, and their mark on the city Similarly, not all workers are the same. Line workers in a heavy manufacturing plant differ from computer engineers who design high tech machinery. They have different needs and resources, and they impact the city in different ways. Even so, the most important force affecting urban geography is still the class conflict engendered by capitalism itself.

Harvey also detailed the impact of the capitalist economic system on urban space by advancing a theory of circuits of capital. Circuits of capital are the most common ways that investment takes place. Harvey describes three circuits. The primary circuit of capital reflects the basic economics of making profit from industrial production. Industrialists must invest capital in the raw materiars, labor, and means of production (machines and tools) in order to make commodities that can be sold. If the exchange value (value of the commodities that can be realzed in a market) of the commodities produced is greater than the exchange value of the raw materials, labor, and means of production, then the industrialist realizes excess value, or profit. When industrialists invest excess value in producing more things, this constitutes the primary circuit of capital. Of course, the actual processes are more complex than we have described here; Figure 6.15 illustrates some of the complex ties involved. There are important distinctions between the interests of individual capitalists and the interests of capitalists as a group. Individual capitalists tend to overnivest in the primary circuit, resulting in overaccumulation and excess capacity.

The secondary circuit of capital includes invest ments that are necessary for, but not directly related to production. This is where the theory explains the urban space economy. Harvey identifies these investments as providing aids, rather than direct inputs, to production and consumption. Fixed capital assets (outside of the immediate production process, that

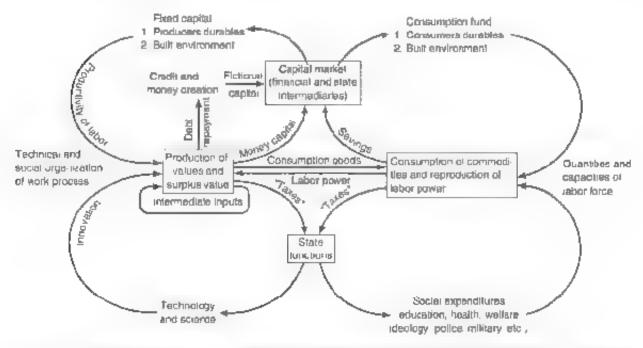


Figure 6.15 David Harvey's diagram of a reuits of capita. Source Modified from Figure 3 p 67 Harvey David. 1989

is, not factories or machines) form the physical framework for production or the built environment for production. In a paramel fashion, consumption fund assets form the built environment for consumption. Examples of fixed capital in the built environment include power-generating factities and transportation infrastructure. Examples of consumption fund investments include housing, schools, and sidewalks. Some features of the urban built environment function as both fixed capital and consumption fund assets, for example, roads and highways are used both by workers to travel back and forth to work, play, and shop, and by producers to transport raw materials and finished commodities.

Although secondary circuit investment is necessary to the capitalist system, it presents problems. First, the built environment tends to require large capital investments that make it difficult for individual capitalists to invest directly. Complex financial markets that provide credit and governments that regulate financial markets and levy taxes are important insulations that facilitate these investments. Second, the built environment is geographically fixed and long-lived, thus investments in the secondary circuit of capital tend to be for long periods of time. Although initially facilitating production and consumption, the built environment can outlive its usefulness and ultimately prove to be a hindrance. Unlike other forms of capital, like labor and machines, the built environment cannot be moved without destroy ing it.

In times of economic crisis or restructuring when the built environment is no longer useful to production and/or consumption, substantial segments of the urban built environment may be abandoned or rebuilt. At other times, new rounds of investment in the secondary circuit of capital results in new built environments of cities. For example, suburbanization (addressed in greater detail in several chapters including Chapters 5 and 8 has been explained by political economists as a way to avoid the extreme costs of rebuilding older portions of cities. New investments in consumption fund assets (houses, parks, and sidewalks) and fixed capital assets (highways) are cheaper and easier on the undeveloped fringe of

cities. These investments were made necessary in part because of overproduction in the primary circuit and by the aging of the built environment. Older transportation systems can inhibit new production systems. Building new housing provides an important backdrop for new rounds of consumption needed to address problems of overproduction. With new housing come new purchases of household commodutes like refrigerators, stoves, and washing machines.

One important insight provided by this perspective is that because the willingness to make secondary sector investments varies over time and space, urban development is inherently uneven Major investments in the urban landscape are made to promote the capitalist system--that is, to enhance the potential to make profit and not to benefit workers. Uneven development refers to the fact that some cities receive much more investment than others and that some sections within cities receive much more investment than others. Geographically uneven urban development is not just accidental to capitalism, however Explicit underinvestment in some places provides the necessary preconditions for future rounds of capitalist development. Some people have argued, for example, that central cities were underdeveloped in the last two or three decades. of the twentieth century in part to provide a outlet for later development pressures when the suburbs stagnate. Some arguments about gentrification the upgrading of old residential neighborhoods. discussed in Chapter 8) reflect this perspective.

Harvey also identifies a tertiary circuit of capital. This circuit also involves investments that are useful to the long-term health of the capitalist system but are further removed from the direct production of commodities. On one hand, there are investments in scientific and technological capacity that are needed to increase productivity and to design new commodities. On the other hand, there are social expenditures that increase the quality of labor, often in the form of education and government-funded benefits. Sometimes these social expenditures can be in the form of a safety net provided to catch individuals and families that fall through the cracks of the system.

For both research and development and social expenditures, there is a problem with the individual motivations of capitalists to overnivest in the primary circuit, and undernivest in the tertiary circuit, even though the tertiary circuit contributes to the long-term health (and profitability) of the system. Governments, and increasingly private public partnerships, are required to fact tate these investments. Also, there is often intense conflict over the appropriate amount and distribution of social expenditure.

WRAPPING UP

This chapter has offered insight into understanding the economics of metropolitan areas, first by examining basic or export activities versus nonbasic economic activities, which involves the internal exchange of money. The interurban industrial andscape is interpreted by the classic growth pole model and, in particular, by the Stanback model of decline in the landscape of production and the use of the new service metropolitan economy. The intraurban location of manufacturing is illustrated by the Wheeler-Park model and, especially by the product afe-cycle model. The chapter ends with an analysis of political economy approaches, which provides a useful lead in to the next chapter on social landscapes of cities and models of social geography.

PART IV THE SOCIAL LANDSCAPE OF THE CITY

FOUNDATIONS OF URBAN SOCIAL LANDSCAPES

The processes of segregation establish moral distances which make the city a mosaic of little worlds which touch but do not interpeneirate

-ROBERT E PARK, 1915 P 608

In Chapters 5 and 6 we discussed how cities are organized as economic landscapes, in this chapter we begin to discuss erries as social landscapes. We ask, "Is there a pattern to the way social groups are distributed across urban space?" and "Do social groups occupy distinct parts of cities?" Most of ns will recognize that we carry around notions of a social landscape. Think of a major city that you know well, perhaps the one you live in. Are there sections of town that you go to for othere foods, perhaps a "Chanatown"? Are there sections of town where you will find old large homes with meticulously maintained lawns? Are there sections of town where you might feel uncomfortable walking alone at mght? Have you ever wondered why these sections of town are located where they are? Have you ever been amazed at how quickly you can move from one section of the city to another, perhaps just by walking across the street? Al. of these questions have motivated scholars to try to understand the spatial organization of urban society

This chapter considers basic theories that have attempted to explain urban social structure. We start by looking at ideas that compare urban social landscapes to ecological communities, followed by a series of simple attempts to represent cities diagrammatically. We then consider more realistic ideas that discuss various dimensions along which cities are organized, and we finish by looking at

contemporary cities. We focus in this chapter on the broad processes that differentiate residential areas in cities; we consider more specific topics in chapters that follow. Chapter 8 discusses housing markets and the crucial role they play in shaping the patterns of cities, Chapter 9 focuses on an issue of major policy concern—the concentration of the urban poor in specific neighborhoods; Chapter 10 discusses the issues of residential segregation and immigration.

ECOLOGICAL APPROACH TO CITIES

The industrialization that started in England in the mid-eighteenth century and spread across continental Europe over the following century led to rapid and dramatic urbanization (see Chapter 2). Industrialization radically changed European cities, and many observers were concerned about its negative effects on society. The general argument contrasted the nature of "traditional" society characteristic of villages and small towns with that being observed in caties. Many of these observers (e.g., Ferdinand Tönnies [1855-1935] and Emile Durkheim [1858-1917], thought in terms of "ideal types" that epitomize distinct kinds of places—typically the large industrial city as one ideal type and the small agraman village as the other ideal type. Recalling our discussion of the rural-urban continuum in

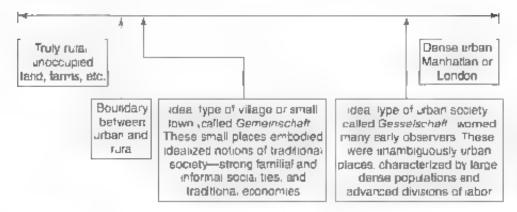


Figure 7.1 local place types and the urban continuum. At though urban e.g., Manhattan) and rural places are easy to distinguish from one another it is difficult to identify a farm dividing line between the two ends of the continuum. Source: Authors

Chapter 1, it helps to think of these as end points on a continuum of place types (Figure 7.1). Apparent differences in social behavior between urbanites and small town residents were of particular concern to these observers.

"Community Lost": European Perspectives on Cities

Community is a slippery concept that still motivates a lot of concern today. The European scholars that first began to think about cities typically contrasted them with ideals of community life experienced in a small village. In a village, the family or kin-group is the basic unit of society, and social relationships are characterized by depth, community, cohesion, and fulfillment—people are bound together in caring, familial ways. Social bonds are constructed on the basis of keness, common be icfs, and common rituals and symbols. The population is socially homogenous, and people are united without having to think very much about how they relate to one another. Controls over individual behavior are exerted through the informal discipline of family and neighbors.

In contrast, European scholars described urban society as fundamentally distinct from traditional community. Social relationships rest on the rationality, efficiency, and contractual obligations made necessary by new patterns of economic organization. Most social interactions tend to be short-lived and superficial People are bound together by formal ties to institutions and organizations. Controls over individual behavior are exerted through impersonal, institutionalized codes. Social order is based on differences—it rests on complex divisions of labor,

with people specializing in different occupations. Specialization requires mutual dependence In general, urban societies provide greater opportunities for individual freedom and choice at the cost of a weakened social fabric.

Other European scholars (e.g., Georg Stmmer 1858-1918]) worned about the psychological mpact of living in cities. They were concerned, in particular, that moving to a city would transform an individual from wholesome to cornert and sintid. Simmel (1903) identified several adverse influences of the city Dynamic density refers to the much higher population density in cities than in small towns. Because of the variety of people and ways of life found in cities, informal social controls on behavior are weaker in cities. More social interactions are with people you don't know personally, and it is possible to "get away" with behaviors found unacceptable in the small town. Rationality/impersonality results from the increasing influence of economic relationships on social interactions—people have to interact on the basis of economic rationality as opposed to the deeper social basis of traditional society. Overstimulation reflects the stress created by the greater population diversity. found in cities than an small towns or villages. People have difficulty dealing with the press of people and tend to withdraw socially to try to preserve a sense of privacy. Cities present people with too much stimulation and people shut down psychologically because of at

Two other phenomena that European scholars, in particular Durkheim, associated with turban life are anomic and deviant behavior. Anomic refers to both the social isolation that stems from the weakening of traditional informal social bonds and the resultant moral confusion and/or normlessness that urban people expertence. Deviant behavior can be the result of anomic, which renders people less capable of avoiding the ever-present temptations found in the city.

The "community lost" perspective advanced by the early European scholars was pessimistic about cities and continues to hold strong influence today. Opinions about cities are fundamentally mixed in the United States. Many of the fears expressed by European scholars more than 100 years ago are still evident (and indeed have been since the beginning of the country. Thomas Jefferson was committed to an agrarian future in part because of his distrust of cities). Not all scholars, however, have agreed with this perspective. Herbert Gans (1962). William Whyte (1988), and Jane Jacobs (1961) each made spirited defenses of cities, presenting a "community saved" perspective (Box 7.1) In fact, even Durkheim, who was generally suspicious of cities, ultimately argued that cities offered enough social opportunity to outweigh the risks.

The Chicago School of Sociology

Soon after starting the nation's first academic department of sociology in 1892, the University of Chicago hired a group of scholars, including Robert Park in 1914 and Ernest Burgess in 1919, who had trained in Europe and were beavily influenced by the perspectives we have just discussed (Burgess, 1925.) Park, 1925). These scholars and the students they trained developed what is now known as the Chicago School of Sociology, which has had a major impact on North American social science. They developed an "objective" and empirically oriented research approach that has marked urban studies and urban geography ever since. They emphasized the need to directly observe social groups in urban contexts Park had been exposed to Summel in Europe and shared some of the Europeans' misgivings about the detrimental impact of cities on community and mental health. Still, the Chicago School was very concerned with having a positive social impact, and they shared the Progressive movement's qualified optimism and commitment to reform. Much of the Chicago research focused on "deviant" behavior, a practice many scholars now feel uncomfortable with. More important, however, was their conceptual understanding of how urban society is organized spatially, the perspective we now call spatial or urban ecology.

Written in a period ranging from the mid 19.0s through the early 1930s, the work defining the ecologica, approach was affected by a diverse array of fustorical factors and reflects the spanial structure of cities at that time. Cities were much smaller in population and spatial extent and were denser than they are today. They had a single dominant business district and factories were typically housed in multistory buildings close to the downtown area. Cities were just beginning to feel the impact of technologic innovations in transportation. Public transportation encouraged the spatial spread of cities, first with horse-drawn vehicles carrying small numbers of professional and middle-class residents, and later with larger and cheaper electrically powered vehicles running on tracks built into roads. These transportation routes also began to change the shape of cities: Cities spread unevenly, with housing and retail being constructed along the transportation routes in a pattern that resembled the arms of a starbsh

Urban populations grew very rapidly during this period as advanced industrial capitalism increasingly fueled the national economy, especially in the manufacturing cities of the Northeast and the apper Midwest. With the exception of the World War I years, and ending with passage of legislation restricting immigration in the 1920s, manufacturing cities had been destinations for millions of immigrants coming to North America to take advantage of the economic opportunities (see Chapter 10). Many manufacturing cities had more people born in Europe than in the United States.

Several other factors affected he nature of the ecological approach. First, this approach argued for the use of scientific methodologies to study human society (i.e., the social sciences) as opposed

BOX 7.1 REDUCTING THE "COMMUNITY LOST" PERSPECTIVE

Not all observers of urban afe were as pessimistic as the early European observers Simmel, Tönmes, and Durkheim We review here some of the major chadenges to their "commanity lost" perspectives of urban social life. One of the problems that womed the early observers of modern large. c ties was the presence of strangers—the anonymity that stond in contrast to the "everybody knows your name" kind. of small-town community. Some observers, however, donot view interactions with strangers as negative; indeed. they view such interactions as vital to hearthy cities. One of the ethel concerns with eities is safety especially personal safety on the streets. June Jacobs, writing in the late 1950s and early 1960s in opposition to the grand arban redevelopment schemes then popular and the ethos of modern city planning, argued that in order for sidewalks to be safe, they had to be constantly used and open (Figure B71). The tendency to retreat and create secluded pockets with himited access actually increases danger on the street.

in settlements that are smaller and simpler than big enties, controls on acceptable public behavior, if not on crime, seem to operate with greater or lesser success through a web of reputation, gossip, approval, if sapproval and sanctions, all of which are powerful if people know each other and word travels. But a city's streats, which must control not only the behavior of the people of the city but also of visitors from suburbs and towns who want to have a big time away from the gossip and sanctions at home, have to operate by more direct, straightforward methods. It is a wonder cities have solved such an inherently difficult problem at all. And yet in many streets they do it magnificently (Jacobs, 1961, p. 35)

to the more philosophically oriented social reflections that characterized European scholarship. Second, biological sciences were also developing rapidly, changing in response to and incorporating evolutionary thinking. Especially prominent was

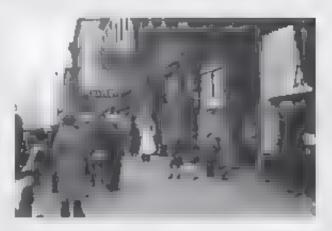


Figure 87.1 Jane Jacobs celebrated the diversity of the street, especially as expressed on sidewalks, in her defense of traditional densely settled and heavily used urban spaces. This photograph of a Yorkville, Upper East Side of Manhattan, is dewalk shows the kind of constant use essential to Jacobs¹ view of cines. Source: Labrary of Congress, Prints & Photographs Division. F5A/OW1 Collection, LC-USF33-002675 M1 [P&P]. LOT 1296. Photograph by Arthur Ratheten.

William Whyte shared Jacobs s optimism about urban public space, and he conducted years of detailed research on how people used public spaces. He articulated a series of design features that factitate constructive interaction. He also argued that public use of urban space is intresential element of safety because spaces unused by the public become useful for (Pic.) purposes (Figure B7.2).

L RBAN VILLAGES AND "COMMUNITY SAVED"

Reacting against the prevaiing pessions of existing urban theory, according at Herbert Guns (1962) studied the West End a predominantly Italian inner-city neighborhood in Boston about which considerable ittiny existed. The

the field of community ecology, whose practitioners attempted to understand how the numbers and types of plant and annual species in a particular place, or ecological niche, change over time in a rational and predictable manner.

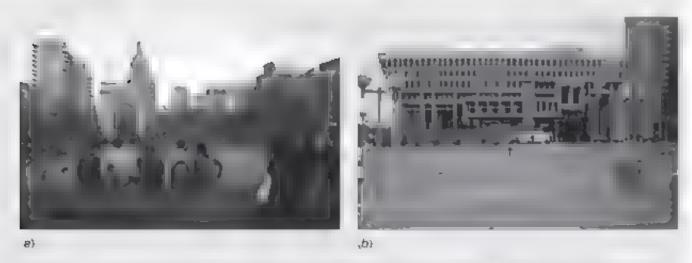


Figure B7.2 These photographs if astraic the importance of design for urban public space. (a. The first space in Washington Park, New York City is open and invitingly designed, and well used by the public. (b) The second space. Boston City Hall, although accessible to the public is stem c and sparse y used Source in Courtesy of The Greenwich Viruge Society for Historic Preservation, www.gvshp.org. (b) L brary of Congress, Prots, and Photographs Division. Historic American Booklags Survey, Photograph by Bill Lebovich.

urban planning establishment, enthra led with urban revitalization, had targeted this neighborhood for redevelopment based on as density and lew memorante status, characteristics typically referred to an descriptions of "arban blight." At the same time, many of the professional planners busy plotting the destruction of the West End thoroughly enjoyed visiting the neighborhood. Gans's study articulated a perspective that "community" in the sociocultural sense is possible within a densely settled urban environment, indeed, these pockets of urban community shared much in common with the traditional rural vill ages that served as contrast to cities in earlier theories.

"COMMUNITY TRANSFORMED"

Herbert Gans (1967) was also a major voice in orticulating another theoretical perspective that countered prevailing

wisdom. This time, Gans studied the new large-scale mass-produced housing subdivisions built by Abraham Levin and others (discussed in more detail in Chapter 8). The prevailing wisdom was that these new suborban residential environments, although in many ways the epitome of the post-World War II American Dream, tacked soul and were bereft of community Based on ethoographic research (the bought a house in Levittown and ived there!), Gans argued that community existed in Levittown, justin a different form. Specifically, community was based (nitally upon proneer engerness (the willingness of newcomers to form new bonds because all residents are new) and later on bonds of common interests, including undergoing common life-cycle stages, raising children, and protecting and enhancing property values

The Unicago sociologists described cities as being the ecological communities. Basically they felt that there was a rational and predictable pattern in cities that emerged from the competition among social groups over resources, in much the same way that

plant species compete for access to sunlight and soil moisture. Central to this approach is the notion of social distance, which argues that social groups want to have as little contact with other groups as possible. Moreover, groups realize their dislike for other

groups by living as far away from them as possible. In other words, they enforce or protect social distance by creating spatial distance. The natural result is an urban social landscape marked by a variety of groups living in distinct neighborhoods that are often identified with the group that lives there.

The ecological approach maintained that occupasts of neighborhoods change over time in a predictable process called avasion and succession. If we observe an abandoned agricultural field, we will note that the plant and animal species that occupy that field change over time in a predictable mannot For example, grasses and small woody shrubs may be replaced by short lived, fast growing trees, which may be replaced (eventually) by a relatively stable assemblage of trees similar to the forest that was cut down to create the field in the hest place Applied to urban neighborhoods, invasion and succossion views the group occupants of neighborhoods as changing over time, Given the historical context of Chicago (and northern industrial cities more generally), groups were often defined on the basis of their national origin, with members of one immigrant group replacing members of another immigrant group within a neighborhood. From the perspective of a neighborhood, the Chicago scholars viewed the invasion and succession process as ongoing, any given neighborhood will be occupied by a series of immigran groups over time

Looking at the city as a whole, the arrival of immigrants often functioned like tossing a pebble into the middle of a pond: the impact radiates ontward in concentric circles. If we consider one immigrant group and its occupation of a particular neighborhood. Figure 7.2 shows how the process might work. As a new immigrant group begins to arrive in a city, they will find housing in neighborhoods case to the jobs they get (most cannot afford any form of transportation other than walking), which at the beginning of the twentieth century were located close to the core of cities. As more and more immigrants from the same country arrive they tend to find jobs in the same factories and live in the same neighborhoods as the "pioneer" immigrants that preceded them. Eventually, enough immigrants from the same origin country live in a neighborhood to make their presence visible, and a rapid transition ensues. The former residents begin to leave, often because of the discomfort of living close to a "foreign" group, and the new group increases rapidly. The old residents of the neighborhood may begin a new round of invasion and succession in another neighborhood

An important related idea that we will take up in more detail later in this chapter comes from the Chicogo sociologists' ase of biological metaphors. Cities are viewed as being comprised of natural areas. The processes that distribute groups across urban space are natural and stem from the competition among groups for control over space. Thus, the fact that different groups occupy different parts of the city is not viewed as fundamentally

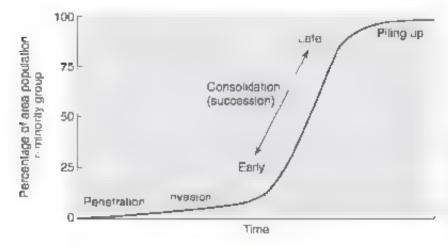


Figure 7.2 S-shaped curve showing the typical stages of neighborhood invasion and succession, based on the percentage of the area's population who are of the "invading" group Source: From R. J. Johnston, Urban Residential Patterns, London, Bell. 1971. Figure 6,3, p. 253.

problematic. The attempts to work toward reform were conducted within the distinct parts of the city.

Even though the writings of the Chicago socialogists are a century old, we still observe processes that resemble those that they described. Consider, for example, the traditional Chipatown in Manhattan in New York City As its population has been increased by renewed immigration from mainland China and Taiwan (not to mention other East Asian countries) over the last several decades. Chinatown has been expanding into surrounding areas. Chief among them is Little Italy, an adjacent area that still carries its association with the Harran immigrants who shaped it. in the early decades of the twentieth century. As Chinatown expands, however, you can now see blocks with the traditional Italian restaurants and grocers next to Chanese markets (Figure 7.3). On the other side of Chinatown, Korean and other East Asian minigrants are occupying neighborhoods formerly in various stages of abandonment (Figure 7.4).

Even though we still observe many of the features of urban society seen and described by the ecological approach, there are important problems with this approach that other perspectives have attempted to deal with. First, social groups are defined superficially based solely on country of origin for immigrants, in fact, many other factors



Figure 7.3 Chanese signage in Lattie Italy, Manhattan, allustrates the changing edinic nature of impugrant neighborhoods. Lattle Italy, the traditional Italian neighborhood, is undergoing an uneven transition.

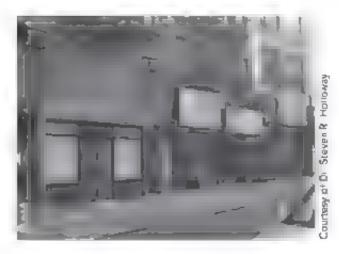


Figure 7.4 Korean signage in Manhattan's Lower East Side illustrates the resiless nature of ethnic districts. The Lower East Side of Manhattan, a traditional tenement aistrict, increasingly shows the signs of renewed minigration, but from new origins (see Chapter 10)

shape and influence social identity in today's complex metropolitan areas, including race, gender, sexuality, age, and lifestyle Second, the ways in which groups interact are reated too superficially For example, the assertion that every group "naturally" wants to avoid other groups and live among its own is only partially true, and it ignores many other factors that influence the residential andscape. Third, the foundational attaudes about the negative influence of cities and the focus on groups perceived. as "deviant" doesn't march current sentiments. Fourth, human societies cannot be treated as if they are simple biologic elements in a large urbanecosystem. To do so ignores the complex array of social, economic, and political forces that shape human behavior and the social landscapes of cities. Even with these problems, however, the ecological approach is still very important and motivates (sometimes only implicitly) much contemporary work on cities. Empirical urban research (including increasingly popular ethnographic work) almost always bears some connection methodologica, y with precedent set by the Chicago scholars. The notion that intergroup relations are related to revealed spatial patterns and dynamics also remains important.

TRADITIONAL MODELS OF URBAN SPATIAL STRUCTURE

Our concern so far has been with the basics of how the Chicago School approached the study of cities. The interplay of social and spatial processes is central to their approach. We shift in the following section to explicitly consider the typical spatial form of the city, starting with the one derived from the Chicago School writings and finishing with two other major models.

Burgess Concentric Zone Model

The spatial pattern of cities produced by processes of invasion of succession was described in visual form by Burgess (1925) in his concentric zone model (Figure 7.5). This mode, captures significant elements of the social ordering of industrial cities in the early twentieth century. It is not the most important contribution of the Chicago School, but it is often the most widely remembered. Note that the industrial sector is located just outside the downtown business.

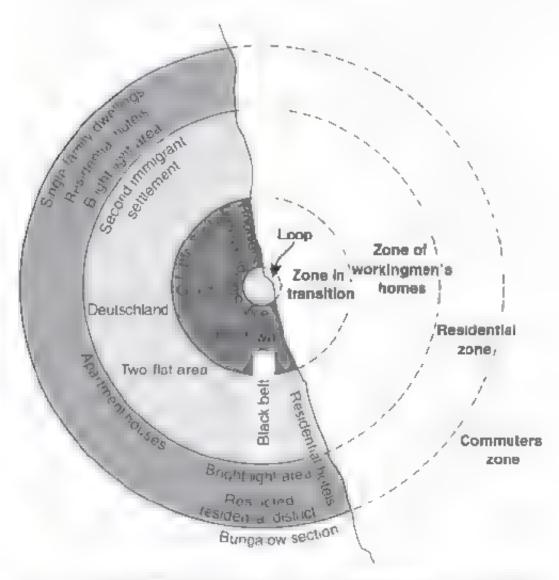


Figure 7.5 Bargess's concentric zone model of arban spatial structure, based on empirical research conducted by the Chicago School of Urban Ecology Strucce. Burgess. Emest W. 1925 (1967).

district (the Loop) and is spreading outward into the oldest residential districts (Zone in transition). The mixed residentia/industrial zone is the area into which most European immigrants first settled, setting off the successive rounds of invasion and succession described above.

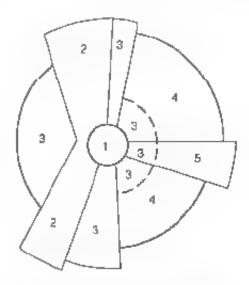
Recalling our discussion of location rent in Chapter 5, note that both this theory, often called bid-ren theory, and the concentric zone theory propose a concentric zone structuring of cities. There are similarities and differences between the theories that deserve mention. Both theories are based in some way on notions of competition-economic competition between land users in bid-reat theory and social competition between social groups in the ecological approach. The object and form of the competition, however, are quite different. In bid-rent theory, the objects of competition are the spatial attributes of urban land that contribute to profit or utility. This competition occurs between individuals in "free" land markets that operate according to principles of neoclassical economies, in ecological theory, the competition revolves around the control of urban spaces needed to maintain social distance between groups. The competition is social not economic Both theories rest on rather simplistic notions of human behavior that do not recognize politics, power, and other forces that shape society. Both theories fail to account, either by omission or intent, for the growing impact of intra-urban transportation, and both fail to account for fundamental changes in the economic logic of cities. Still, the social spatial pattern predicted by the two theones is very similar, and it is useful to think of these in relation to each other, even though they were articulated almost 50 years apart by academics with few intellectual connections with one another

Hoyt Sector Model

Homer Hoyt (1936-1937, 1939), an economist employed by the Federal Housing Administration during the 1930s, also worked for insurance and lending institutions. He conducted a variety of empirical studies of urban land markets, and he

proposed a theory known as the **Hoyt sector model** that also resulted in an alternative visual model of urban spatial structure (Figure 7.6)

The basic notion Hoyt described was based on his observations of how cities grew. Very often as cities grew, the highest income groups moved into new homes in new neighborhoods. These neighborhoods were often located along transportation routes on the periphery of the city. In other cases these neighborhoods offered aesthetic views, such as prominent landscape features like river bluffs and hilltops, or proximity to other important landmarks like purks or universities. As high-income groups moved into new houses, their old houses became available for other households to occupy. Hoyt described an often top-down process in which families with lower-class.



- 1. Central business district
- 2. Wholesaling and light manufacturing
- Lower-class residential
- 4 Middle-class residential
- 5. Upper-class residential

Figure 7.6 Hoyt's sector model of urban spatial structure based on empirical observations of housing market dynamics in the 1920s and 1930s, Source Harris, Chaurcy D and Edward L Ulman, 1945

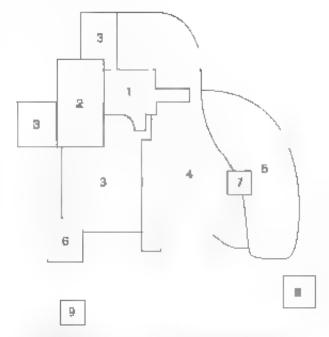
standing subsequently occupied the housing left behind by the outwardly mobile upper classes.

Hoyt recognized that people search for new housing in areas close to where they currently live, often following major transportation routes. This leads to radial rather than zonal expansion and results in a sectoral rather than a concentric pattern. Note that some of the social dynamics central to the ecological approach are obliquely incorporated in Hoyt's model. For example, high-income sectors tend to be insulated from low-income sectors by middle income sectors in both models. Also, Hoyt's sector model. does not specifically address racial and ethnic clusters. Note also that Hoyt's model was also based on a city with a single major commercial core

Harris and Ullman Multiple Nuclei Model

Chauncy Harris and Edward Ullman (1945) wrote a short article immediately following World War II that has had a surprisingly enduring impact on urban geography. They recognized in relatively early form many of the trends that came to characterize cities during the last decades of the twentieth century wellbefore most observers. Rather dran the concept of a single central business district that was common to the concentric zone and sector models. Harris and Uliman recognized that cities were developing multiple centers, or "nodes," that shaped land values and surrounding land uses (Figure 7.7).

Thus, Harris and Ullman's model became known as the multiple nuclei mode. In this model the nodes did not all have the same function, some were business parks, while others were significant institutions like hospitals or universities. Even so, the multiple nodes all had significant effects on their surroundings, and together they fundamentally altered the spatial structure of cities, Although many urban places prior to 1950 resembled the zonal and sectoral models in that they had a single dominant center, cities increasingly grew spatially complex through the later half of the twentieth century. Thus, Harris and Ullman's observations ultimately proved to be much more accurate descriptions of what cities would look like in the late twentieth and early twenty-first centuries.



- Central business district. Wholesale light
- manufacturing
- 3. Low-class residential
- 4 Medium-class residential 9 Industrial suburb High-class residentia.
- Heavy manufacturing.
- 7 Outlying business district
- B Residentia suburb

Figure 7.7 Harris and Ullman's multiple nucles model. of arban spatial structure. Rather than a single downant. urban core, Harris and Ullman identified several "nodes" around which urban land use clustered. Source, Harris, Channey D. and Edward L. Ullman, 1945.

MORE COMPLEX MODELS

The concentric zone, sectoral, and multiple nuclei models came to be the most common ways of understanding urban social geography. These models, as presented in textbooks, however, were descriptive and simplistic. The decades following World War II witnessed dramatic changes in the forms and functions of North American metropolitan areas. There were also dramatic changes in the nature of social seience. Perhaps most dramatically, the social sciences began to rely ever more on quantitative data and the new analytical techniques designed to take advantage of the new data. The study of cities during this period was still heavily influenced by the ecological tradition, especially the portion of that perspective that emphasized the careful assemblage of empirical data. As the study of urban society came to be evaluated from the standards of the "sciences," there emerged a greater concern with formulating and evaluating "hypotheses," In this section we consider a series of more complex models of urban structure that reflect the growing remands on scientific methodology and quantitative analysis.

Social Area Analysis and Factorial Ecology

Exbref Shevky and Wendell Bell (1955) formaiated an approach called social area analysis that explicitly built on the earlier writings of Park and his students, but in a more deductive formal way Significantly, this was not the first attempt to develop a more deductive treatment of cities based on the empiric sm of the ecological approach. In fact, Louis Wirth, one of Park's students, wrote a seminal article in 1938 trying to formalize the ecological approach, see Box 7.2.

Social area analysis is based on the premise that the city reflects complex modern society, that is, the forces distinguishing modern from traditional society also shape the modern city. It identified three primary forces that shaped urban spaces: (i) advanced job skills are increasingly required for success in industrial society, (2) family structures change as the rapidly evolving postwar economy makes new demands and opens new opportunities, and (3) residential mobility increases and urban space becomes reorganized on the basis of demographic categories such as race and ethnic identity.

Social area analysis further hypothesized that each of these three forces would have a different spatial expression that could be mapped empirically. To begin with, socioeconomic status differentials reflect the increased range of economic activities in the post-World War II industrial economy. Well-educated, high-income households tended to twe in sectors similar to those identified by Hoyt. Family status differentials (also referred to as urbanization differentials) reflect the increasing importance of family and household demographic

structure in determining housing aceds and preferences. The post-World War II decades witnessed a dramatic increase in childbearing, often called the "baby boom," that became associated spatially with the rapidly expanding suburbs on the fringes of cities. Singles, young childless couples, and older households tended to ave toward the center of the city in older, smaller housing stock. Finally, ethnic status differentials reflect the growing importance of racial and ethnic identity stemming from the increased mobility of modern urban society as immigrants and migrants from the rural South poured into cities.

An important aspect of social area analysis was the use of large data sets about urban neighborhoods created by the U.S. Census Bureau. Shevky and Bell adopted specific variables from the census data to represent each of their hypothesized forces, or, as they called them, "factors." Using these variables, they identified "social areas" specifically related to the natural areas previously described by Park.

The social area generally contains persons having the same level of iving the same way of life and the same ethnic background, and we hypothesize that persons living an a particular type of social area would systematically differ with respect to characteristic attitudes and behaviors from persons living in another type of social area. (Shevky and Bell, 1955 p. 20)

Social area analysis compellingly demonstrated how quantitative data analysis could be combined with deductively derived hypotheses about the social patterning of cities. During the 1960s and 1970s much more data became available at the same time that rapid progress was made in computer technology. Many of the social sciences, including geography, embraced the application of ever-more complex ways of doing quantitative analysis of larger and larger data sets. The use of a set of quantitative techniques foosely known as "factor analysis" and now known as factorial ecology, became popular as a way to examine the ideas suggested by Shevky and Bell Basically the forces creating the spatial patterning of the city will be evident in empirically defined

BOX 7.2 WIRTH'S "URBANISM AS A WAY OF LIFE".

A settinal article was published in 1938 by sociologist Louis Wirth, who had trained at the University of Chicago. under Park and Burgess and also with Simmel in Europe. With reacted against the empiricism of Chicago School of Ecological Research, arguing that it was too inductive can approach to science that starts with detailed observations and draws generalizations from those observations). He offered a much more deductive (moving from abstract) diought to specific expectations) discussion of cities and socia. Life He differentiated between urbumzutton as a related set of economic and demographic trends producing rapid and dramatic changes in cities, and urbanism as an interrelated set of social and psychological responses to hese trends. Wirth identified three main attributes of urban-123...OD:

- Population size Increasing numbers of people bring about greater cultural and occupational diversity. Large populations, especially when driven by migration and in argranup, merease the potential for different groups to come into close contact. Greater diversity brings about greater need for formal control systems, such as legal systems. Large differentiated populations lead to highly divided and specialized occupational structures. in sum, social interactions are increasingly depersonalized, based more on functional and formal roses than onpersonal relationships. Ultimately, there is a real risk of social disorganization and disintegration
- Physical densits. The crowding of ever-larger popa ations into madequate amounts of urban space intensifies the effects of increased population size, producing spatial fragmentation and segregation. The

- social asychological effects of crowding and diversity nesude geographic stereotyping and the attempts to maintain social distance as antidotes to the pross of people of different backgrounds. On a more positive note, crowding and diversity may lead to a greater toleration of differences.
- · Heterogeneity. As we have already mentioned in passng, increasing social heterogenetty is a basic attribute. of urbanization. In particular, we observe heightened social mobility across caste and class lines, weakened family ties, and an increase in the valuation of personal achievement. Social mobility is also connected to spatial mobility, which then feeds back to weakened ties to community. Heterogenesty also increases the commercialization and ray onalization that lead to the crosson of personal relations

Wirth also identified three consequences of urbanization, which he defined as urbanism

- · Adaptive individual behavior, which appears in response to the changing urban context. People behave in more aloof and impersonal ways and do not restrain their behavior because of the liberties provided by the arban-
- · Neurotte individual behavior for example, mental illness, alcohousm, and other deviant behaviors that neteuse because of the auck of effective social controls. There is a greater reliance on institutionally enforced forms of social control.
- Social pragmentation, which becomes mapped into spatial segregation of groups, and social activities become much more compartmentalized.

"factors" discovered inductively through analysis of large data sets. The quantitative empirical analysis is conducted first, and the factors are identified afterwards. Despite apparent methodological differences between social area analysis and factorial ecology the two empirical approaches generally found evidence in support of three main factors responsible for organizing urban form. (1) socioeconomic status, (2) family status, and (3) ethnic and racial segregation.

The Urban Mosaic

An enduring difficulty with the social science study of urban spatial structure during the 1960s and 1970s. was the apparent discrepancies among the spatial structures suggested by Bargess's concentric zone model, the Hoyt sector model, and the Harris and Ullman multiple nuclei model. Many studies were conducted to see which of the three visual models most closely reflected the reality of urban spatial

structure. Ultimately, these studies found only weak support for any of the three. The emerging results of factorial ecologies, of which many were conducted during this period, provided a possible way to reconcile the three visual mode s

Robert Murdie (1969) most clearly articulated this approach by describing the existence of an urban mosaic that resulted from the intersection of the three primary forces repeatedly identified by social area analysis and factorial ecology, Mardie suggested that the socioeconomic status factor most often

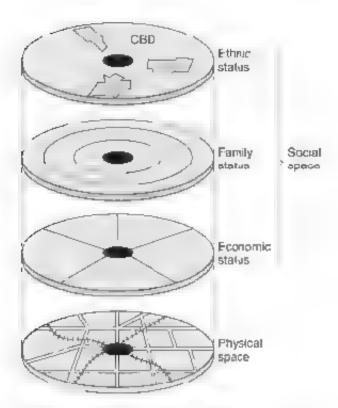


Figure 7.8 Murdue's adealized model of urban residenual structure, based on studies of factorial ecology, helped to resolve the apparent disagreements among the zonal, sectoral, and multiple nuclei mode at of urban spatial structure by suggesting that different groups of neighborhood characteristics were distributed across urban space by different processes and thus took on different spatial patterns. Source: Modified from Mardic, R. A., 1969.

exhibited a sectoral pattern similar to that described by Hoyt, with higher income families typically located in a specific sector of the city. Family status most often exhibited the concentric zone model described by Burgess, with young singles and the elderly living in the apartments and smaller houses located towards the center of the city and families raising children located on the periphery of the city. Ethnic and racial concentrations typically reflect hisloric concentrations and out across the other factors This can be argued to resemble, if only loosely, the Harris and Ullman notion of multiple nodes. When these three spatial patterns are overlain, the result is the urban mosaic (Figure 7.8)

CONTEMPORARY URBAN SOCIAL SPACE: GLOBALIZATION, POSTMODERNISM, AND CITIES OF DIFFERENCE

Most of our effort so far in this chapter has been to present traditional ways of understanding the organization of urban social space, ways that unjoyed their greatest acceptance in the 1970s. However, clues and the social sciences have changed tremendously in the last three decades. Some of these changes we have already discussed in eather chapters. In this section we review some more recent notions about contemporary social landscapes of cities. Some of these ideas reflect changes in cities themselves, while others reflect changes in the ways we think about cities. In particular, most of the ideas we have discussed already in this chapter begin (either explicitly or implicitly) with the assumption that groups and andividuals choose where they live in a fairly rational manner Although these choices may reflect a desire to maintain social distance (as in the ecological approach or economic utility (as in neoclassica, economics,, the ability to choose remains an important aspect of these approaches. This assumption that social landscapes reflect the accumulated choices of individuals is challenged by the perspectives discussed in the last section of this chapter

We discussed the political economy perspective in Chapter 6, where we focused on landscapes of industrial production. Here we want to discuss briefly how this perspective helps us understand the social landscapes of cities. The important insight from political economy is that the social landscapes of the city do not occur naturally as the result of individual decisions. They are part of a larger economic system from which they draw their meaning, and to which they contribute. In particular, social groups come to inhabit different and distinct parts of cities, not so much because they want to but rather because broader. forces place them there. Power, thus, is a crucial concom of these approaches. Who has power? Who does not have power? And how is power created and used? Power denyed from political structure or conflict and

power derived from economic structure are the pri-

mary foci of much of this research.

One of the central defining features of capitalism is class conflict between those that own (or control) the means of production and laborers. The division of urban space along social lines, known as residential differentiation, serves an important function. in maintaining and reproducing this system. Recall from Chapter 6 that sovestment in the secondary circuit of capital results in the creation of the built environment for consumption (also known as the consumption fund) consisting of housing, parks, and roads among other features. On the one hand, these features are necessary to stimulate new rounds of consumption of industrial commodities, which is necessary to avert crises of overproduction. On the other hand, however, residential differentiation is recognized as being essential to the process of social reproduction. In order for the capitalist system to keep going, the basic classes must be reproduced. This requires socialization into group norms. value systems, ideologies, expectations, attitudes, and behaviors. Socialization often takes places in neighborhoods-in schools and parks and playgrounds. Socially homogenous neighborhoods facilitale this process. Children of working-class parents are socialized to become members of the working class in part because they grow up in working-class neighborhoods; children of the affluent are socialized to become members of the bourgeoiste in part because they grow up in elite neighborhoods

Political economy perspectives also help us understand the sometimes startling polarities embedded within the urban social landscape. Capital investment and development is inherently uneven. This in part explains why cities contain places of extravagant wealth as well as places of despairing poverty. The dynamics and geographic logic of investment, disinvestment and reinvestment are discussed later in this chapter, and in Chapters 8 and 9.

The remainder of this chapter focuses on three major themes. globalization, postmoderman, and cines of difference. In particular, we ask what impact these trends have had on the social patterning of urban space. Our purpose here is both to discuss the forces that are changing urban social landscapes (whether or not they are "new") and to identify and describe some of the types of areas seen today that you probably would not have seen in decades past Globalization, in particular, rests on the insights of the political economy approach, whereas postmodemism and notions of clides of difference, according to some theorists, rest on very different propositions that we will discuss briefly below

Globalization: General Trends

Globalization represents interrelated economic transformations that include the shift from manufacturing to advanced services, the increasing speed and global scale of economic (especially financial) interactions, and the increasing mobility (some would say hypermobility) of goods and people on a global scale (Chapter 4). The impacts of these economic transformations upon the social landscapes of cities as our concern in this section

To focus our discussion, we ask two questions. First, which general aspects of globalization have the potential to remake urban social geography? The profound economic changes that characterize globalization have deepened economic and social polarization, such that today the numbers of both rich and poor are increasing while the high income working class and the middle class are shrinking

This process has the potential to affect cities because the increasing numbers of the wealthy and the increasing numbers of the poor both place new demands on cities for housing and residentially based services and amenities. International migration flows, especially from less-developed regions of the world into the orgest global cities, are creating new opportunities for social groups to interact socially and economically. New opportunities for discrimination and conflict also arise

Second, what are the geographic correlates of these trends within cities? The literature suggests that we should see several spatial trends along with globalization. Most generally, we should see increased spatial concentration and separation of social groups—a spatial polarization to accompany toolal polarization. Although some degree of social separation has always marked cities, globalization is argued to have accentuated the extent and intensity of separation. New, and newly configured, enclaves of a vanety of types mark the globalizing city

Increased concentration and separation are also marked by the increased fortification of urban space, often with barriers such as walls and gates between sections of the city and heightened surveillance. The wearthy, and increasingly the professional classes, seem to want to "wal out" unwanted groups due to fear of increased social disorder and crime. Although defensive and exclusive "fortresses" always have marked some parts of the city, their use has widely expanded. On the other side of the polarized social spectrum, the poor are increasingly walled into abandoned and inwanted areas of cities

The intensified tendencies toward concentration and separation are marked by internal selfsufficiency—referred to as ionalization by some observers. Here we note the increasing tendency of the spatially separated parts of the city to provide a more comprehensive range of employment, service, retail, and entertainment opportunities within the separated part of the city. As a result, the instoric role of cities as the loci of public interactions between disparate groups may be diminishing as social groups increasingly need not leave their part of the city for any purpose. This trend can be observed in suburban areas as professional office buildings and large complex retail centers have been constructed in outlying areas. Similarly, downtown residential areas are now providing a wider array of retail and entertainment opportunities. Note, for example, the increased presence of national and international retail chain stores, typically found in suburban mails, in urban areas such as New York's Times Square.

Elements of the Global City

Having identified some of the trends affecting globaltering cities, we now ask, what do these cities look like? What is the emerging urban social land scape? Based on the examples of the most important cities in the global economy. New York, London, and Tokyo—Saskia Sassen (1991) and other early observers (e.g., Mollenkopf and Castells, 1991) described a dual city, sometimes referred to more generally as a divided city. In the dual city, the most important forces are economic polarization. and the functional and spatial links between the polarized segments of society. The increase in the number of lower income workers at the bottom is linked to changing lifestyles at the top, higher level. workers increasingly meet has a functions of life by hiring someone else to perform them. For example, professional families often eat out more frequently and here people to clean their homes, wash their cars, and watch their children. This pattern highlights renewed flows of immigrants into global cities, as immigrants, rather than existing minorities, often perform these low level, low income service tasks.

Spatially, the dual city hypothesis predicts that the social landscape of cities will be marked increasingly by intense spatial divisions reflecting the deepened social polarization generated by economic globalization. It frequently identifies two types of neighborhood transformations, apprading and downgrading. On one hand, there is an apprading of neighborhoods to accommodate the new affluence of the professional class. Older neighborhoods that had deteriorated during the middle decades of the twentieth century, yet contained interesting architecture, experienced what can be called gentrification. Here, "proneers" withing

to take considerable financial risks move into poor neighborhoods and renovate their houses. As more and more houses are renovated, the neighborhood undergoes a more widespread transformation and can eventually become a place with high-priced housing that only a few are able to afford. The in-town location of these neighborhoods, with convenient access to employment and to urban entertainment, makes them attractive to the new professional classes, often called "yuppies" (young urban professionals). Exclusive and private new in-town neighborhoods for the truly wealthy also have come to symbolize the new affluence of the global economy.

On the other hand there is an expansion of poor neighborhoods, often called downgrading or filtering, with associated social problems. As the number of poor residents increases (from both economic dislocation and immigration), the spatial extent of the city devoted to housing the poor also grows. The poor are now more likely to live in poor neighborhoods, and the places where poor people live are now more likely to be populated by other poor people. This growing spatial concentration of poverty is ded to a series of social problems.

The metaphor of the dual city, marked by the increasing polarization of the contemporary global city into poor and rich that is driven by economic globalization, captures only a small part of contemporary trends. Peter Marcuse, in a series of publications (1996, 1997), identifies a number of other enaponents of the globalizing city. Summarizing and rephrasing his work somewhat, there are three fundamental elements that constitute the globalizing city the citadel, the enclave, and the ghetto, sometimes with important subetements such as a distinction between the traditional ghetto and a new "outcast ghetto." In between these basic elements lay urban landscapes of gentrification, working-class housing, and increasingly localized suburbanization.

The Citadel "Citadels are enclosed, protected, insulated areas of upper-income residence, often, particularly if located downtown, combined with office and commercial uses" (Marcuse and van Kempen, 2000, p. 13). ("itadel residents tend to be

at the highest levels of income and power, whereas residents of gentrified neighborhoods (see below) tend to be managers and professionals associated with the expanding sectors of the new information economy. The wealth necessary to live in these areas may be inherited or generated by the opportunities of the postandastrial global economy. Often citader residents desire proximity to downtown but fear the dangers that contemporary cities represent. For this reason, newly constructed developments often are surrounded by high protective walls and guarded by armed "rent-a-cops." Such chadels reflect both the increase of wealth and the increased desire of the wealthy for social isolation (Figure 7.9)

The Enclove The enclave represents spaces of social concentration where the forces creating the spaces are more voluntary than imposed. Marcuse distinguishes three types of enclave cultural, immigrant, and exclusionary. The cultural enclave is an area where residents participate in and share common cultural interests. For example, areas with the apprents and studio space at ract art sits and massicians. The immigrant cuclave, as its name implies houses a population that consists of a particular immigrant group. Here, the distinction between contemporary concentrations of immigrants and the

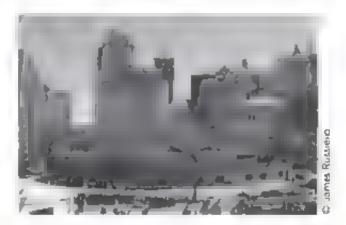


Figure 7.9 Battery Park City in New York demonstrates that entades have become a prominent feature of many urban sandscapes. They are often located close to downtown cores, offering proximity to arban amenities, and are sometimes heavily fortified for protection

traditional immigrant ghetto of the industrial city needs to be articulated. Although some ammigrants with fewer economic resources still congregate in the classic immigrant ghettos of a hundred years ago (e.g., Manhattan's Chinatown), a new form of immigrant enclave is emerging—the ethnohurb (see Chapter 10). Possessing both economic resources, and, increasingly, political influence, intimigrants (and second-generation households) are voluntarily clustering in suburban locales, transforming both our impression of what suburbs are and our notions of immigrant communities.

Perhaps the most troubling type of enclave is the exclusionary enclave, populated by upper-middle-class households seeking to reside in areas where they are not exposed to ethnic and/or racial diversity or especially to poverty and crime. The point of the exclusionary enclave is to keep others out—to reproduce residential homogeneity. These enclaves are often associated with high-income suburban jurisdictions that enforce homogeneity through the imposition of exclusionary zoning, restrictive building codes, and other local regulations, furreasingly, however, exclusive enclaves are also being created in other parts of the city, including some gentrified and redeveloped inner city neighborhoods.

The Ghetto Ghettos represent spaces of congregation created and maintained by forces external to the choices and desires of their residents. Hatorically, ghettes have had an ethnic component to them; for example, Jewish Quarters in the cities of Medieval Europe (Chapter 2). In the United States, ghettos were given a racialized meaning during the Jecades of the Great Migration of southern blacks to northern industrial cities when residential segregation reached unprecedented levels (Chapter 9) Recent trends have created ghettos that also have substantial implications in terms of poverty. Marcuse thus recognizes two kinds of ghettos. The traditional ghetto is based on ethnic and/or racialized identity. and residents typically serve an economic function (e.g., as the source of low-cost labor) for the broader society. The excluded ghetto, (sometimes referred to as the outcast ghetto), in contrast, houses groups of the population for whom there is no economic role. This representation of the ghetto is often based on the work of sociologist William Julius Wilson, who wrote about the development of an isolated and structurally impovenished underclass living in abandoned central-city neighborhoods (1987). The lack of current economic usefulness for the residents of the excluded ghetto differentiates it from the historically antecedent traditional ghetto and other working-class and poor greas

"In Between" Neighborhoods in the Global City

if citadels, enclaves, and ghettos constitute the major "ideal types" of the spatial elements of contemporary cities, other types of areas exist in between. These areas are often transitional, both in the sense that they exist spatially in between citadels and ghettos, for example, and in the sense that they can be neighborhoods temporally in the midst of transitioning from one type to another. Regardless of the temporal longevity of these forms, they are important components of the contemporary social landscape.

The Gentrified City Gentrification, as described above, represents the movement of upper- and middle income, predominantly white residents into older neighborhoods that typically contain architecturally valuable housing stock. These neighborhoods often are in close proximity to downtown business. and exteriasyment districts, though they can also be located in older suburbs. The process of gentification is closely related to housing value cycles in arban housing markets, it ypically begins when a few so-called "urban proneers," often gays or artists, purchase devalued order hoasing stock and renovate and upgrade the properties with so-called sweat equity. Hausing values often begin a rapid increase. An often-observed demographic sequence can ensue where proneers are followed by "yuppies" and child less couples. For a time, gentrifying neighborhoods often are quite diverse in terms of social identity and economic resources. Very often, however, rents. and home prices escalate to the point where former residents can no longer afford to live in the neighborhood and are displaced. Eventually, given a complete transition, the residents of gentrified neighborhood may be quite like those of weather suburban enclaves—predominantly white and upper income (Figure 7.10)

The Suburban City Suburbs are not new to global cities. Indeed, as we discuss more fully in other chapters, the general process of decentralization, and specific locations called suburbs, have been associated with urbanization for several centuries. Automobile-oriented residential suburbanization was one of the dominant forces affecting urban areas in the post-World War II decades (see Chapter 5). In many ways the mythology of the homogenous, mostly white, middle-class, conventional family-oriented suburb is an enduring force, affecting not only the reality of the social geography of the city but also how we view the contemporary city Several recent trends have tremendously impacted suburbs, however, perhaps fundamentally



Figure 7.10 The A amo Square Victorians shown in this photograph of San Francisco demonstrate the increasing prevalence of gentrified neighborhoods in inner-city areas of many North American cities. Older neighborhoods with interesting architectural features have become popular with affluent urbunites willing and able to renovate the properties. Critics point out that gentrification displaces the poor who formerly lived in these neighborhoods and reduces the supply of affordable housing throughout the city

changing the very nature of the territories on the outer edges of metropolitan areas

First, edge cities (also called stealth cities, suburban downtowns, and totalizing suburbs) have formed. Journalist Joel Garreat popularized the term in his 1991 book of that name. The trend is for high-rise office buildings, comprehensive retail centers, and entertainment opportunities to anchor what were formerly only residential communities (Figure 7.11). Increasingly, suburban locations contain the majority of a metropolitan area's jobs and retail businesses, in addition to the majority of housing. Thus, suburban residents do not need to leave the suburban environment for any of their needs.

Second, suburban environments are increasingly marked by defensive design. Comprehensive walled developments spring up next to older developments that add walls, gates, and guards in a defensive attempt to shield out the dangers of the city. Both edge cities and defensive designs can be seen as part of the polarization that results from the economic

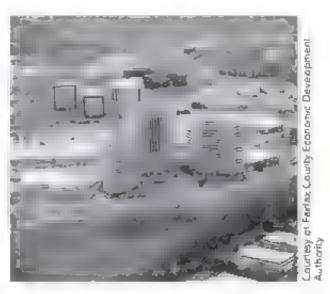


Figure 7.11 Tysons Corner, Virginia, demonstrates the increasing importance of edge cities in many metropolitian areas since the 1980s. Formerly nonorban spaces were made accessible by interstate freeways, especially where radial freeways intersected with circumferential or beltway freeways. Edge cities are remarkable for their concentration of higher order service functions, among them corporate command and control functions.

changes brought by globalization, in that they are attempts to maintain spatial distance and isolation against the spreading troubles of the inner city

The Working-Class City Cities long functioned as the residential location of the aboring classes. that undergarded industrial capitalism. Especially in cities that matured during the last haif of the mneteenth and first half of the twentieth centuries, the neighborhoods occupied by the working classes. have experienced a variety of fates. In many U.S. ciaes, working-class ac ghborhoods built in the two decades following World War II are undergoing substanual downgrading. Many (though certainly not all) of these inner-ring working-class suburbs will be ghettos in just a few years. In Los Angeies, for example, many of these areas already have poverty rates and associated rates of crime similar to those in the ghettos of northeastern cities. Other working-class areas face extreme upward pressure as households search for ways to deal with rising housing costs. Some properties are purchased simply for their location so that the house can be torn down. and replaced with a new and typical y larger house.

Overall, the globalization thesis describes many trends that we observe in contemporary cities Indeed, many of these trends occur in cities of all sizes, not just the largest cities described as global cities, in addition, we also observe trends and patterns in the largest cities that are not consistent with the trends described. For example, contemporary cities remain deeply divided by race (Chapter 9), a pattern that predates globalization and seems resistant to recent changes.

Postmodern Urbanism

Many scholars identify a major historica, shift in the fundamental nature of society dating to the ate 1960s and early 1970s. As the economy in developed nations shifted from industry to advanced services and simultaneously became more globaized and more fragmented, culture also changed. Observers understand these changes as part of an epochal shift from a long period of modernism to an emergent period of postmodernism. The advent of postmodernism in architecture and other design helds resulted in the incorporation of various past (someomes pre- or early-modern) elements into new designs. The sometimes glaring juxtaposition of elements from different traditions is thought to provide opportunities for constructing new meaning and can be seen across a wide variety of building types, ranging from residences to commercial establishments to high rise office buildings. Postmodernism is also thought to have dramatic yet shifting impacts on urban form. Paul Knox (1993) describes the constantly changing postmodern metropolis as a "restless urban landscape," The basic elements of postmodern design are contrasted with modern design elements in Table 7.

One example of postmodern urban design that we talk about more in Chapter 12 is the increasing tendency to adopt multiple land uses in close proximity, sometimes on the same parcel or even in the same structure. In particular, New Urbanism (also called acotrad tional town planning) is a movement to retrieve urban and architectural design from a past era (typical y thought of as the central pordons of late-ninescends and early-twendeds century towns and small cities and the streetear suburbs of larger urban regions). Often presented as an antidote to automobile-dependent, environmentally destructive suburban sprawl, New Urbanism also more generally celebrates design diversity and the absence of highly segmented urban landscapes. In many New Urbanist developments, housing combines contemporary amenity and space sensibilities with nostalgie designs, such as large front porches, no visible automobile garages, narrow lots or connected housing, and sidewalks. Moreover, residential land use is located clase to, or interspersed with, commercial and industrial land uses, and residences have easy access to public transportation facilities

A stronger discussion of "postmodern arbanism" emerged from scholars working in and focusing on Los Angeles. Los Angeles developed without the strong center epitomized by Manhattan or downtown Chicago and is characterized by a highly decentral ized and fragmented social landscape. The so-called "LA School" scholars have since the early 1980s.

seized upon Los Angeles's distinctiveness and argued that rather than being unique, it is the model of postmodern urbanization. Drawing on earlier discussions of economic restructuring and globalization, Dear and Flasty's (1998) iconic presentation accentuates cultural interpretations of urban form. For example, they identify the increasingly isolated neighborhoods. for the wealthy and the professional classes (citadels and some gentrified neighborhoods discussed earlier) as dreamscapes-places increasingly disconnected from bronder realities and thus given over to artificial and contrived meanings. They refer to the powerful controllers of the global economy as the cybergeoisie, ever-more interested in consuming urban dreamscapes, and the increasingly disenfranchised and exploited masses as the protosurp, relegated to marginalized urban spaces. They argue that the depth of spatial fragmentation based on deepening social polarization in Los Angeles foreshad ows the future of urbanization in other metropolitan regions. As an alternative to the concentric ring theory and its sectoral and multimucleated variations that we have already discussed. Dear and Flusty offer a game-board model of chy space (Figure 7,12).

It is evident that the traditional, center-driven agglomeration economies that have guided urban development in the past not longer apply Conventional city form, Chicago style, is sacrificed in favor of a noncontiguous collage of parcelized, consumption-oriented landscapes devoid of conventional centers yet wired into electronic propinguity and nominally unified by the mythologies of the disinformation highway Los Angeles may be a mature form of this post modern metropolis, Las Vegas comes to mind as a youthful example. The consequent urban aggregate is characterized by acute fragmentation and specialization—a partitioned gaming board subject to perverse laws and peculiarly discrete, disjointed urban outcomes. (Dear and Flusty, 1998, p. 66)

While Dear and Flusty's model is perhaps the most exaggerated and extreme of attempts to theorize the postmodern metropolis, it illustrates important themes present in much of the literature. (1) individual parcels of urban land have direct connections with globalized capitansm (i.e., individual uses of

Differences between Modern and Postmodern Architecture

Modern	Postmodern	
"Less is more" (Mies van der Rohe)	"Less is a bore" (Robert Ventari)	
International styre, or "no styre"	Double-coding of style	
Utopian and idealist	Real-world and popul st	
Abstract form	Respons we and recognizable form	
Deterministic form ("form follows function")	ollows function") Semionic form ("form follows fiction")	
Functional separation	Functional mixing	
Simplicity	Complexity and decoration	
Purist	Eclectic	
Protechnology Disguised technology		
No historical or vertacular references	Mixed historical and vernacular palette	
Ingovation	Recycling	
No ornamentation	"Meaningful" ornamentation	
Context ignored	Centexcual cues	
"Dumb hox"	Scenographic	

Source: Table 5.1 from Knox Paul L., 1994 p. 156 (his source: After C. Jeneks, The Lynguage of Post-Modern Architecture, New York Rizzoli, 497; and J. Panter "Post-Modernism A Definition, Plumming Province and Research 4 (1988), 221

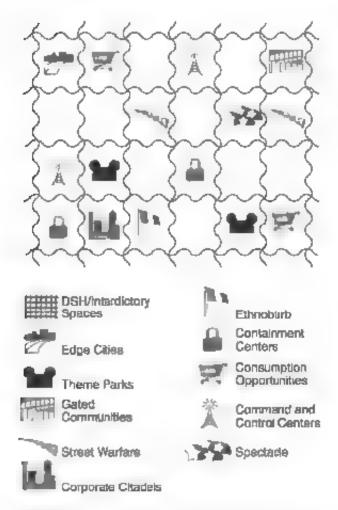


Figure 7.12 Dear and Flusty's Keno capitalism model of orban (non)structure, based on applying a postmodern perspective. *Source*: Modified from Dear, Michael and Steven Flusty, 1998

land owe more to their utility in the global economy than to local rationales); (2) there is little apparent connection between parcels in use; and (3) the uses of land can be shuffled—mixed and redistributed. More recently Andrew Bevendge (2011) compared, using innovative historical GIS data, the population growth patterns of large metropolitan areas over most of the twentieth century in an effort to evaluate hypotheses derived from the Los Angeles School with those derived from the Chicago School as described earlier in this chapter (Box 7.3)

Cities of Difference

An important perspective on the social geography of cities shares with postmodernism respect for the importance of culture, especially as related to the major axes of social differentiation (race, gender, sexuality, etc.). While the material we address in this section is not dominated by a single research tradition or theory, much of it (especially in recent years) prioritizes questions of social identity and builds, in some fashion, on notions of a socio-spatial dialectic. This is a way of thinking about the back-and-furth and simultaneous relationships between the configuration of space and social identity. For example, we might say that the development of gender identity reflects the spatial structure of the city, while at the same time gender identity affects the spatial structure of the city. Because many scholars in recent years are increasingly ancomfortable with the idea that identity (whether gender, race, or sexuality, among other dimensions) can be permanent or stable, some have argued that we should focus instead on the processes that generate social difference. From this perspective, we recognize that differences are socially constructed (as opposed to biologically determined), mutable, and multiple (e.g., the expenence of a lesbran brack women looking for a neighborhood to live in will be shaped by her racianzed difference and by her gendered difference and by her sexualized difference). This last point is sometimes referred to as the intersectionality of the multiple dimensions along which social difference is produced and experienced. We review in this section two of the dimensions along which social difference is produced and interacts with arban spatial configurations, feminist theories of urban space, and theories that deal with sexuality in urban space. We will address issues of racialized. difference more fully in Chapter 9.

Women and the City Women have been scarcely mentioned in this chapter. This largely reflects the fact that the traditional modals of urban social space do not consider the relationship between urban social space and womens' identities and experiences in and of the city Historically, the feature of urban social space that held perhaps the greatest importance is the

BOX 7.3 TECHNOLOGY AND URBAN GEOGRAPHY

HISTORICAL GIS AND URBAN SPATIAL FORM

Advances in the technical capacity of geospadal information handling and analysis offered by GIS are now being applied to historical data, which is opening up opportutottes for new kinds of urban analysis. The Minnesota Population Center (MPC) at the University of Minnesota conducts the National Historical Geographic Information System (www.nhgts.org), an on me data access and mapping portal (MPC, 2011, Fitch and Ruggles, 2003) U.S. Census data and digital geographic boundary files are readily available for recent years to formats that easily can be incorporated into GIS software. Data and orgital boundaries from earlier Census years were not readily available until the NHGIS project. The MPC created boundary files and digital data files for every Census dating back to 1830. For small areas within cities, the NHGIS has created digital boundary files for census tracts. (see Chapter 1), which approximate neighborhoods, for the largest cities going back as early as 19 0. These small area data provide an excellent source of aformation that can make possible new types of historical urban analysis Sociologist Andrew Bevendge consucted one interesting recent example of research asing the NHGIS data. He used census tract data and GIS boundary files for Chicago and New York in 1910 and 1920, and Los Angeles in 1940 and 1950, to examine patterns of urban population growth in I ght of theores of urban spatial structure. He synthesized the urban studies literature and identified three main approaches to understand the nature and spatial pattern of urban growth, summarized here (Beveridge, 2011, 191 -92):

- 1 Chicago School (Sociology) Hypotheses
 - a. Population Growth and Decting: Major population growth should be away from the urisin center, while any population decline would be near the urbancenter
 - b. Sparat Patierning of Growth. Population growth and decline should be spatially patterned, that is,

growth areas in one decade should be near growth. areas in the next decade, while decime areas in one decade should be near decline areas in the next decade

- Los Angeles School Hypotheses.
 - a. Population Growth and Decline. Major population. growth should not follow a particular structure, so population growth and decline would be roughly the same distance from the urban center.
 - b. Spatial Patterning of Growth. Population growth and decline should not be spatially patterned. Growth areas in one decade can be near decline areas in the next decade and vice versa.
- 3. New York School Hypotheses (which would mostly apply to recent periods).
 - a. Population Growth and Decline. Major population growth should be nearer the center of the city, and decline should be away from the urban center.
 - Spatial Patterning of Growth, Growth in the center. of the city will be patterned, but there is no reliable. way to predict the patterning of growth elsewhere in the city.

Figure B7 3 shows the kind of new analysis that can be conducted with historical GIS data. It shows that the growthin population density in Chicago and New York between 1910 and 1920 follows the concentric ring model as predicted by the Chicago School, with the greatest increases on the outskirts of the clases paired with declining density. in the core. Other parts of Beveridge's analysis, however, provide a more mixed picture. His spatial analysis provides some support for each of the models, depending on the city. and the time period. Overall, cities seem to have grown in the pattern predicted by the Chicago School early in their history and in the early to mid-twentieth century. Over the last several decades, however, the patterns are much more complex, which leads Beveridge to call for more nuanced theory. He is unequivocal in his support of the new research. that is made possible by the application of GIS to historical uman data

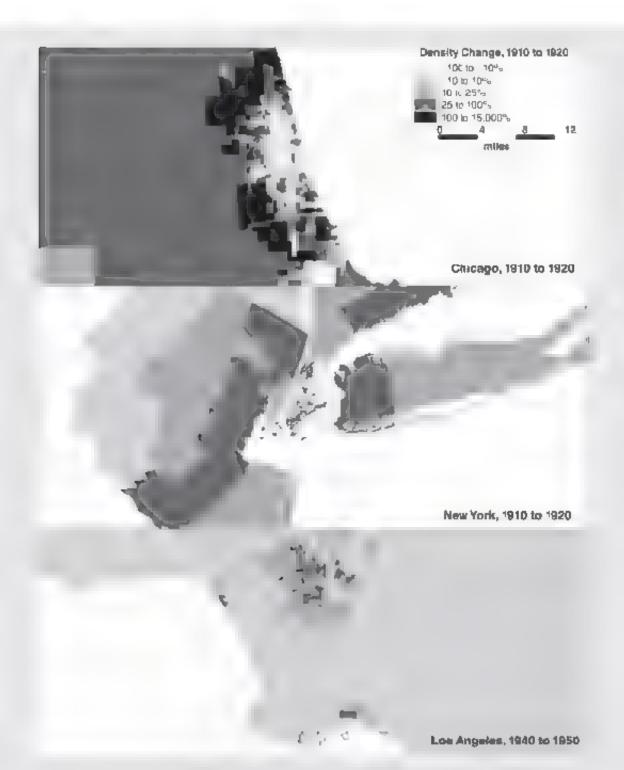


Figure B7.3 Change in population density between 1910 and 1920 for Chicago and New York, and between 1940 and 1950 for Los Angeles. Source: Beveridge, Andrew A., 2017.

separation of work from home, which began during the period of presidustrial modernism and intensified as part of the industrialization of capitalist production. Reflecting patriarchal social relations, space came to be understood culturally in gendered terms. Public space was the realm of work and commerce and the domain of men working outside of the home in a wage economy. Private space was the home and the domain of women whose domestic labor was not wage compensated. This overly simplistic dichotomy has been mapped onto geographic space at several scales. Domosh and Songer (2001), for example, note that in Renaissance Europe, cities were seen as masculine and the countryside as feminine, Industrialization deepened and rearranged this mapping by requiring large new urban districts devoted to production (including factories, warehouses and transportation facilities); these spaces became part of the masculine public ream. Housing (for the non-laboring classes) became increasingly separated from the spaces of production and commerce in new suburban districts. Accordingly, private feminine space became associated with suburban areas within cities, while public masculine space identities adhered to cities' downtowns and sites of capitalist production. This simplistic dualism of public masculine city versus private feminine suburb still has cultural power today, reflected in the opinions and politics of urban space.

This simplistic dualism, of course, does not adequately reflect the complexities of the lives that women lead in cities. Domosh and Seager (2001), for example, draw attention to the many contradictions presented by shopping. As industrialization progressed during the nineteenth century. mass production made available to the expanding middle class an ever-widening range of consumer products at more affordable prices. As the gendered household division of labor deepened, women were expected to take the primary role in running the household, which increasingly required that women take responsibility for managing the household budget and purchasing household items. Depart ment stores and other retail spaces required for the enculation of mass-produced goods were located

downtown, which required that women travel from the private feminine realm of suburban home to the public masculine realm of downtown. These daily mobilities produced social anxieties, and much effort was expended on regulating how and when women could "appropriately" move through urban space

Over the last five or six decades, women have greatly expanded their presence in the workforce Even so, the patriarchal division of labor in the household continues to require that women hold the vast majority of domestic responsibilities for the household, even while working. These dual responsibilities interact with urban space in several important ways. The spatial entrapment thesis contends that women must make carear sacrifices in order to accommodate their dual responsibilities. The job must be located close to home, and often have flexible or part-time hours, to facilitate domestic responsibilities. Many women end up working in jobs stereotypically known as "women's work" (e.g., nursing, teaching, clerical work) for relatively lower salanes and fewer advancement opportunities. An important associated trend up for large corporations to locate alencal and back-office functions in the suburbs to take advantage of the spatially entrapped labor pool of educated suburban women seeking proximate and flexible jobs (Nelson, 1986).

Hanson and Pratt (1995) and England (1993) argued that the spatial entrupment thesis as presented here is too simplistic, but for different reasons. Hanson and Pratt emphasize the multiple ways that geographies of work vary across urban space. In particular, women offer their labor in response to very localized norms and values (i.e., the local context matters), and employers are very sensitive to these contextual variations. Class also matters, as working-class women seem to experience greater spatial entrupment than middle- and apper-class women who are able to use paid labor to attend to domestic responsibilities. England (1993) accontiates the diversity of motivations and strategies that characterize women working outside of the home, and argues that spatial entrapment is not ubiquitously applicable

Dolores Hayden (981), also building off of the distinctions between public masculine versus private fernimine space, critiques the highly privatized designof urban space, focused on single-family ("dream") homes, as being dysfunctional for working women with dual responsibilities. Teilingly, the emphasis on privacy in the single-family home superficially seems. to acceptuate the private realm of domestic femininity, yet burdens women with unnecessary domestic work stemming from the isolation of the household from the community resources, including the option of housing shared between multiple families, that would make domestic labor much more feasible. Hayden, a noted Yale architect, goes beyond on tique to propose several alternative models of house. design and urban design that foundationally build on the needs of working women, especially those in nontraditional households (i.e., single women, single mothers and widows).

Sexuality and the City is there an urban geography of sexuality? Frank Mort (2000) ideatifies the mid-1950s maps of prostitution and male homosexuality produced by London's Metropolitan Police Commissioner for inclusion in the noton ous Wolfendon Commission Report (which proved instrumental in decriminalizing some forms of homosexual conduct in Britain) as perhaps the first maps of homosexual urban space. The government's concern was to locate the spaces of sexual impropriety as a precursor to eliminating them through the monitoring and regulation of those spaces (much as a public health campaign might begin with maps of disease). Prior to this, very little was known about urban sexual geographies. Mapping gay space has continued to be an attractive activity; note the populanty of the Urban Institute's The Gay and Lesbian Atlas (Gates and Ost, 2004).

Historians and other scholars disagree over when homosexuality became socially recognized as a distinct identity in opposition to normative beterosexuality; some contend that sex between men was a public and accepted part of life in many cities of antiquity. Others argue that a distinct homosexual

social identity, understood in opposition to normative heterosexual identity, was forged during the industrialism of the mid-nineteenth century as capitalism fixed the nuclear family as the site of social reproduction. Most scholars agree that a public social identity began to take spatial form in the cities of the early twentieth century. As a starting point, cities were attractive as locations for homosexual activities. because of their size, diversity, and anonymity relative to rural or small town contexts. Within cit es, gay men increasingly utilized public and semi-public spaces to meet and pursue sexual encounters. Parks, bathhouses, and public restrooms became known as spaces for gay cruising—though it was necessary to always be watchful for police and/or unwanted public observation. Given that homosexual activity was still illegal in most Western societies until the 1960s or later, more permanent spaces were created. in bars and social clubs, which were often located in city districts that were already known for sexual tolerance

Spaces for gay males shifted dramatically in the 1960s, in part due to increasing social tolerance for homosexuality and the emergence of an active gay rights movement after the 1969 Stonewall nots in Greenwich Village. One result has been a shift from the ephemera, and covert spaces of public restrooms and secret bars to a pronounced residential clusiering in many large U.S. cities: Levine (1979) popularized the term "gay ghetto" As mentioned earlier in this chapter, gay males are often popularly associated. with gentification. Simplistic but only partially accurate arguments contended that because gay males didnot carry the financial burden of rearing children, they enjoyed greater disposable income, even if their jobs did not pay any more than heterosexual men. Seeking the relative permissiveness and anonymity of the cities, they were well positioned to be pioneers in inner-city neighborhoods that had suffered from decades of deterioration and neglectivet were located. in close proximity to the lifestyle amenities and job opportunities of the city. They were able to leverage their lifestyle and financial resources by investing in real estate in marginal neighborhoods, and through

BOX 7.4 Mapping Gay and Lesbian Spaces

Gary Gates of the Urban Institute has extensively explored the potential of U.S. Ceosus data to count and map gay men and lesbians-work that is attractively portrayed in The Gay and Lesbian Atlas. While their images cannot be reproduced in color here, Michael Brown and Larry Knopp (2006) have rendered several of their maps in grayscule: these image portray the neighberhood distribution of female (Figure B7.4a) and male (Figure B7.4b) same-sex households in Scattle, based on Census 2000 data. While there are substantial

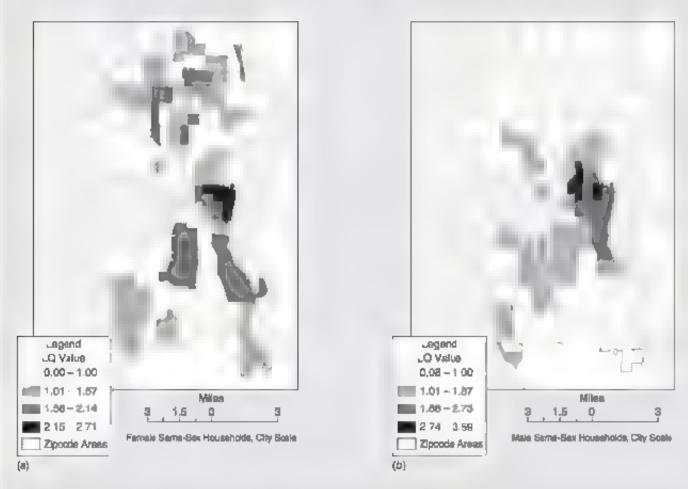
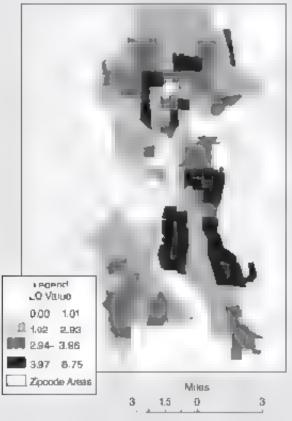


Figure B7.4 (a), (b) and (c) Maps of gay and testian urban spaces in Scattle. Source Modified from Brown, Michael and Larry Knopp, 2006

renovation and sweat-equity begin the process of gentrification. While not all gentrification has been assoexated with concentration of male gays, some of the first and most visible examples clearly were (e.g., San Francisco's Castro district, New York's Greenwich Village, New Orleans' Mangny neighborhood).

Lawrence Knopp has written extensively on the development of homosexual urban spaces. One of his more influential arguments (Lauria and Knopp, 1985) is that gay men, in particular, congregate in specific urban neighborhoods as a strategy of creating gay territories that serve to establish and defend methodological problems with their approach, Brown and Knopp confirmed that the maps mughly correspond with arban spaces locally known as being "gay" or "lesbian." Even so, they also note that a slightly different way of treating the data produces a very different sooting map (Figure B7 4c shows the redrawn map of female



Female Same-Sex Householde, Regional Scale

(c)

Figure B7.4 (Continued)

gay social identity. Moreover, these gay neighborhoods also provide a territorial basis for developing economic and political power (Knopp, 1990), 1998), though the specific goals and methods varied considerably among cities.

same-sex households) that does a better job of illuminating some neighborhoods that are known to be home to substantial numbers of lesbians. Brown and Knopp grovide a much more extensive engagement with Gates' mapping project than we can explore here. Gates' work with census data shows up in a very different context. Richard Florida has received tremendous attention in receni years for his "Creative Class" arguments (2002, 2005), where he claims that cities with a diverse, tolerant, and vibrant bonemian cultural life win economically by attracting the kinds of imovative and creative labor that start companies like Google and eBoy Florida collaborated with Gury Gates to create a "Gay Index" as a way of identifying culturally diverse and tolerantic besithat the new "creative class" prefers to live in.

Benjamin Forest (1995) look this line of research to a broader scale in his analysis of the successful effort to incorporate the city of West Hollywood. The area had long been known as a gay part of the greater Los Angeles area, but with the strong support

of the local gay community, as reflected in several gay newspapers, it became perhaps the first predominantly gay city. Forest focused on the symbolic features of gay social identity that were attributed to. West Hollywood's place dentity in the effort to win the incorporation vote, and which in turn solidified a narrative of what it meant to be gay. He identified seven elements of this gay social/piace identity. "creativity, aesthetic sensibility, an orientation toward entertainment or consumption, progressiveness, responsibility, maturity, and centrality." (Forest, 1995, p. 133)

Most of the published research on urban space and sexuality has focused on gay males rather than lesbians. Some (e.g., Castells, 1983) have argued that esbrans are less likely to congregate in visibly Tesb an neighborhoods," nitributing this, in part, to an innate male desire to dominate territory. This is an overly simp, stie view that perpetrates gendered stereotypes. Note that while there is ongoing interest in mapping gay spaces (Box 7.4), recent research criticizes these approaches on several grounds. First, there are real problems in the data that used to create maps, while Concus data capture households with same-sex partners, gays and lesbians live in a wide variety of household types. Moreover, many gay men and lesbians deaberately conceal ("closet") their sexua identities. Second, even when gay spaces are mapped, most often there are many non-gays living in these neighborhoods at the same time that many gays and lesbians live, and work and play) in other spaces of the city Third, the focus on gay spaces glosses over the more basic fact that all spaces in the city have sex. an identity

WRAPPING UP

Our focus in this chapter has been on the social land scape of the city—in particular upon traditional and contemporary ways of understanding how distinct social groups come to inhabit separate parts of the city. Many of the models presented in the first part of the chapter came under severe criticism over the ast three decades. Part of this criticism reflected changing tastes for theoretical frameworks. Part of the criticism, however reflected the fact that the traditional models based on rings and sectors simply no longer described what most people (not to mention scholars) observed in cities. For example, most people living in cities are acutely aware of the rapidly changing nature of suburbs with their increasing presence of jobs and entertainment, and the expansion of gentrified neighborhoods at the center

Much of the last half of this chapter thus is devoted. to understanding the contemporary social landscape of the city from newer theoretical perspectives. We end our discussion by asking a simple question. Are cities really all that different than they were in the past? Or are we simply seeing the end result of processes already in place a century ago? It is interesting to consider some of the authors that we presented ear-Ler in this chapter. Take Peter Marcuse, for example. who presented strongly worded arguments in articles and chapters throughout the 1990s about how significantly cities are changing in the era of economic giobalization. Yet in a book published in 2000, Marcuse backed away from these arguments. Instead of a "new spatial order" evident in globalizing cities, Marcuse cone uded that although the forces affecting change in the globalizing city are real and have real effects, there are also significant continuities with past processes and past spatial patterns.

A similar reaction can be seen with regard to arguments about an emergent postmodern city. If stripped of the new phraseology, arguments about postmodern urbanism (and Los Angeles's archetypai status) sounds surprisingly similar to arguments made a century ago when the Chicago School was coming to prominence. This is not to suggest that we do not see substantial changes in the social andscapes of contemporary cities—we do. We simply suggest that these changes are the result of long-standing processes as well as new processes deriving from macro-changes in the nature

of economic activity A popular and nonacademic presentation of the changing structure of cities is evident in the rapidly growing area of geodemographics. This field takes advantage of the social patterning of cities that we have been talking about in this chapter for business use. Businesses target tesidential "clumps" for special marketing and to help determine potentially profitable locations for their establishments. Most major data vendors (companies that package and process data from a variety of sources in formats useful to businesses) have some sort of neighborhood classification scheme. In subsequent chapters we examine specific aspects of the social landscape of cities in greater detail housing (Chapter 8), poverty (Chapter 9), and immigration (Chapter 10).



URBAN HOUSING MARKETS: SPRAWL, BLIGHT, AND REGENERATION

The everyday American landscape is a vast, confusing and dangerous terra incognita, braved in recent years by a hardy band of enthusiasts in America's fastest-growing outdoor adventure hobby. These are the intreptil, if sametimes carsick,

navigators of uncharted highway interchanges, the daring runners of overflowing arterials that in full spote, become Class V rapids choked with Detroit and Yokohama in m

ARMANDO CARBONELL, 2004, p. 5.

In Chapter 7 we discussed general spatial arrangements of social groups in cities, that is, the social structure of cities. Although we did not draw explicit. attention to the fact, housing comprises a very important feature of urban social landscapes. As you continue to think about the various parts of cities you have been in, consider how important housing is to your perceptions. Some neighborhoods consist of brand new, large suburban houses located along curving streets ending in cul-de-sacs. Other neighborhoods consist of attached row houses on narrow streets close to downtown. Still other neighborhoods. consist of large apartment complexes. Much of what we call to mind when we think of the city's social landscape is symbolized by housing! In this chapter we address some of the major forces that have shaped, and continue to shape, housing in North American cities. Specificarry, we look at notions of blight, sprawl, and various forms of neighborhood. regeneration. We begin, however, by looking at some of the basic features of housing and housing markets.

HOUSING AND HOUSING MARKETS

What is bousing? On a very fundamental level, housing is a basic need of human existence; sheller, protection from the elements, a place to sleep and eat and recreate. Housing, however, has a much broader meaning in North American society. Housing represents most households, largest single expenditure as well as significant investment potential. Most of us choose housing that works for us in a functional sease, but many of us also attempt to find housing that expresses some aspect of our personality or that reflects something of our values. Housing affects us in a variety of ways, it can serve as a canvas to express our personality and values (note the popularity of cable channel HGTV), but it can also make as sick if ead paint peels or if radon floats into our air. Housing separates our private lives from our public lives, but public issues sometimes intrude into our homes. So, what are the basic processes that shape how people select housing? How is housing provided? How have cities changed over time in terms of housing?

Sectors of Housing Tenure

What kinds of housing exist in North American cities? What kinds of arrangements govern the way that households occupy housing? A common way of differentiating housing is based on the notion of tenure (based on the Latin tenere, "to hold"), which refers to the various ways in which residential units are secured and occupied. Most simply, analysts distinguish rental from owner-occupied housing. The Encyclopedia of Housing points out that the renter/owner distinction is secondary to more basic factors that divide housing into sectors. Table B.1 shows four possible sectors based on private versus public ownership and market versus nonmarket conveyance.

The ownership distinction is rather self-explanatory: Does a public entity or branch of government hold the title to the property, or is the property privately owned? Conveyance describes the pricing mechanism. Do markets set the prices and terms of occupancy, or are they established outside of markets? Of the four possibilities, publicly owned housing conveyed by markets is quite rare. Private market housing (comprised of renter-occupied and owner-occupied housing) is the most common; more than 90 pescent of housing units in the United States are conveyed via private markets. Public nonmarket housing, although important for many reasons discussed below constitutes a small share of total units. This sector constitutes a greater share in Canada.

Table 8.1 Housing Market Sectors Based on Ownership and Conveyance

		CONVEYANCE	
		Market	Nommerket
OWNERSHIP	Private	Private Market Housing	Private Nonmarket Housing
	Public	Public Market Housing	Public Nonmarket Housing

and many other industrialized nations. The fourth type of housing evident in industrialized nations, called by some **third-sector housing**, or social or nonprofit housing, contains units that are privately owned but are not conveyed by traditional markets. Many community activists favor this kind of housing as a possible solution to critically low supplies of affordable housing

Most bousing in North America is privately owned and priced through markets. Thus, whether occupied by a renter or by the owner, housing is in a very basic sense a commodity-a thing that is bought, sold, and rented. What does that mean? First, like all things bought and sold, housing can be analyzed in terms of markets, using ideas and concepts from economics. Second, housing is ansike many other commodities in that it is not moveable (usually), it is expensive, durable, and subject to strong neighborhood effects, and it simultaneously possesses strong use value (the often intangible benefits we derive from housing) and exchange value (the economic value of housing that is realized when sold). These features, especially geographical immobility, introduce many complexities into our ability to understand housing.

We want to understand the forces that determine how much bousing is produced (built or renovated), where that housing is produced, and who purchases that housing Let's start by applying the conceptual tools of neoclassical economics: We need to understand forces shaping the demand for housing, the forces shaping the supply of housing, and the impact of the interaction of demand and supply forces.

Housing Markets, Demand

People everywhere and throughout time have always needed shelter, thus creating a demand for housing. Understanding demand, however, requires more than counting the number of households and the number of housing units. Demand also involves housing amenities, a dwelling's features that determine its economic value. Think about the last time you (or a friend or family member) looked for a place to live. You probably faced a trade-off between how much you could afford to pay (whether in a monthly rent or a mortgage payment) and the amenities of the housing unit

As you examined potential dwellings you probably asked some basic questions about each one. How many bedrooms are there? How many bathrooms are there? How big is the kitchen? Is there off-street parking? Is there a pool in the apartment complex or in the neighborhood? Is there central air-conditioning? Fach of these amenities carries a use value (utility) and an exchange value.

When people purchase rather than rent housing, they pay even more attention to the amenities of the house or condominum. We are constrained by how much we can afford to pay—our budget—and must make trade-offs. Even when we do not sit down and write out an explicit monthly budget, most of as still make economic choices with a sense of how much we can afford. Significantly, each housing amenity has individual value. Indeed, one approach to housing research attempts to quantify the value of each of these attributes, an approach called hedonic price modeling (Box 8.1). In most cases, however, amenities are evaluated collectively. In other words, we evaluate amenity bundles.

A second attribute of housing as a commodity that deserves our attenuou is explicitly geographic. The value of housing depends not only on the attenues of individual housing anits but also on the geographic location of the housing unit. When you look for housing, you are not just trading off the cost of housing with your budget, you are also making an explicitly spatial decision—you are choosing where to live

Location matters at several geographic scales. First, site characteristics affect housing value. Is the site shaded? Is there a stream or a swamp on the property? Is the soil rocky or sandy? Second, the location of the property relative to immediately proximate properties matters (Box 8.2). Is the house or apartment on a busy street or aext to a railroad track? Are the neighboring houses larger, nicer, and in better shape than the one you are considering?

A third consideration always positions your house or apartment within the spatial configuration of your daily activities. You need to travel from home to school or work. You need to purchase food. You want to recreate and relax, perhaps by taking a run in a park. Several questions emerge. How close is your housing to work or school? Will you need to drive or can you take public transportation or bike or walk? How complicated will a be for you to go to the grocery store or to the video store? How accessible is this housing unit to the airport?

BOX 8.1 HEDONIC HOUSE PRICE MODELS

Economists have developed a way of thinking about, and atodying, house prices. They put together large databases on a rarge number of houses in a city. For each house, the database contains the sale price and detuned information about the house: the number of bedrooms, the number of bathrooms, square footage, furthed basements, and so forth. With this information, they can detect the impact of each characteristic on the overall sale price. This approach is based on multivariate regression modeling, a statistical technique that allows us to determine the net contribution of each characteristic on the price. For example, what happens to the price of a house if the owners add an extra bathroom, keeping everything else in the house the same? The regression model presented below.

captures, over the set of houses in the database, the typical relationship.

$$\$ = 125.000 + 1,750 \times BATH + 3,250 \times BEDROOM + 5,050 \times FINISHED BASEMENT.$$

In this example, that extra bathroom adds, on average, an extra \$1,750 to the sales price of a house that doesn't change in any other way. This is not to say that any particular homeowner will get exactly \$1,750 more in sales price. In reality, some will get more, and some less. Rather, this formula just captures the general relationship. This approach is called **hedonic price modeling** and has been used extensively to understand the forces that shape house prices.

BOX 8.2 NORMY, LILLIS, AND BANANA: HOW HOMEOWNERS REACT TO ADJACENT LAND USES.

One of the integrang aspects of understanding home prices in a society where we treat houses as commodities is the impact of local romext. Real estate agents tell us that the three most important attributes of a property are location, location, and location. In practical terms this means that the characteristics of the area surrounding a house are important, in admition to the attributes of the house itself. Imagine a four-bedroom suburban house with two-car garage, and all the typical amenances. Now imagine that house attracted across the street from an automobile parts recycling facility (i.e., auto junkyard). That house will sell for less money than if it were located on a leafy cull-de sec, in less away from the ugarest outsance.

The problem with local context is that communities change over time. A house when built may be mues away from anything. Over time, however, the surrounding parcels of land are often developed or redeveloped. If the new land uses are perceived to have a detrimental impact. on the value of the property, the homeowner may wish to tesast or protest that land use. Sometimes gomeowners in en area join together to resist a planned development in defense of their property values. Sometimes this resistance extends to an entire suburban jurisdiction. This kind of political power in suburban areas has been noted as a potent. force shaping how cluds grow. Some critics have suggested that suburbarrites can take on an attitude that rejects any and use other than more suburban housing, preferably priced at least as high as their own housing. Thus, subprbanites have resisted such things as apartment bundings especially if they are publicly financed or subsidized), group homes, low-income housing, and nonresidential landuses. This is especially true if these land uses have any negative externalitites, that is, spillover effects in terms of noise, odor, aesthetics, and so forth. This resistance at times has been fierce, earning it the mekname NIMBY (Not In My Back Yard).

Variations on that theme have been referred to as LULUs (Locally Unwanted Land Uses) and in its extreme form as BANANA Build Absolutely Nothing Anywhere Near Anything). All of hese terms reflect the attitude, often problematic, that stems from treating housing as a commodity. Given that we invest wealth in our houses, houses are more than the piaces where we live. Another way to say the same thing is that in a capitalistic economy, our houses have exchange value, that is, the fact that housing is a form of investment from which most homeowners profile in addition to use value, that is, the enjoyment and utility that homeowners derive from their housing. We defend the exchange value in our houses, even though that defense can end up detrimental to the community at large. For example, everyone in a metropolitan area can agree that effective sewage treatment is necessary for all--just don't build the treatment facility upwind from my neighborhood. The problem is that there are essential and socially important land uses that no community wants within their boundaries.

As previously mentioned, controversies regarding land use often center on facilities with obvious negative externabiles, such as a sewage treatment facility or a plant to generate electricity from burning trash. Very often, given the highly fragmented state of affairs in metropolitan areas, these land uses end up being located in parts of town that are not efficient or worse, in parts of town where the poor and minorities live, who do not have the same political power o resist them.

All of these considerations affect the market value of the housing unit and how much you are willing to pay for it. Keeping in mind the trade-offs that we have talked about, some of you probably chose housing with an attractive amenity buildle but had to accept a less-favorable location to keep the costs down. Or perhaps you valued a location close to work or school and chose to sacrifice some of your desired amenities to make sure you were in a good location.

Housing Markets: Supply

Housing supply is a complicated subject with many facets. First, housing typically is produced on site in the very place where it will be used. This affects production methods—housing typically is not assembled in a factory and then transported to the place where it is consumed. Rather, laborers gather materials on site to construct the housing. Economic cost savings that mass production and

assembly line production techniques provided for moveable commodities have been more clusive in housing. Still, builders economically benefit from mass production and assembly-line production procedures, which, especially after World War II, had dramatic impacts on the nature of housing (i.e., the tendency towards larger subdivisions, standardized housing floor plans, and extensive site preparations, including buildozing away topographic irregularities and cutting down trees).

A really important issue related to the supply of housing revolves around the adequacy of affordable housing units. In particular, can households with low incomes or members with disabilities find adequate shelter at a price that they can afford? An old rule of thumb suggests that most households will spend approximately one third of their income on housing. Low-income households typically pay a much greater proportion of their income for housing. Activists and some scholars claim that the markets fail to provide an adequate supply of housing. Low-income households are thus forced to make very difficult decisions-either they have to devote a really high proportion of income to housing and risk financial instability, or they must accept housing conditions that most North Americans find unacceptable, for example, several families sharing a one room apartment. Moreover, the trend during the last several decades has been towards a shrinking supply of affordable housing Conventional economic theories of housing markets suggest that markets should supply enough housing for low-income households through processes that we will discuss below-filtering and vacancy chams. We turn next to traditional theories about how housing markets function geographically.

HOUSING MARKET GEOGRAPHIES & Neighborhood Change

Our discussion so far has mostly focused on how housing markets work in the abstract. Housing markets have very explicit geographies, however in the next section, we discuss various ways of understanding spatial aspects of urban housing markets.

Urban Ecology and Housing Markets: Invasion and Succession

We introduced the Chicago School of Sociology's perspective on urban spatial structure in the previous chapter (i.e., concentric zones defined by social status and degree of social assimilation surrounding a central business district and an industrial zone) This approach also provided an important understanding of how housing markets work spatially. According to ecological theory, cities' housing stocks grow from the inside out. Recal. from Chapter 7 our discussion of neighborhood invasion and succession caused by the most recent arrival of immigrants from foreign countries (Figure 7.2). We noted that the impacts of immigration ripple outward, as previous residents of neighborhoods close to the factories that provided immigrants' jobs leave and seek housing in neighborhoods further out (Figure 8 1). The spatial mobility into the sext zone outward is propelled by the desire for social distance from the most recent arrivals, but it is made possible by upward socioeconomic mobility and cultural assimilation into a nonethnic mainstream.

Filtering and Vacancy Chains

Homer Hoyt (939), the housing economist who developed the sectoral model of urban structure introduced in Chapter 7, explicitly considered the spatia, implications of housing market characteristics. Based on U.S. house price data collected and mapped in the 1930s, he identified several patterns that he considered inherent to the spatial functioning of urbanhousing markets. In contrast to the notions derived from ecological theory, Hoyt argued that cities grew from the outside in

Hoyt observed that the highest-income households propelled urban growth on the edges of cities (Figure 8.2) As their incomes rose, homeowners desired larger houses with more amenities and had them built on the edge of the existing city, typically close to existing lines of transportation. When the homeowner moved into their new home, their old home became vacant and available for occupation by a new household-typically one who was younger and possessed fewer financial resources. Importantly,

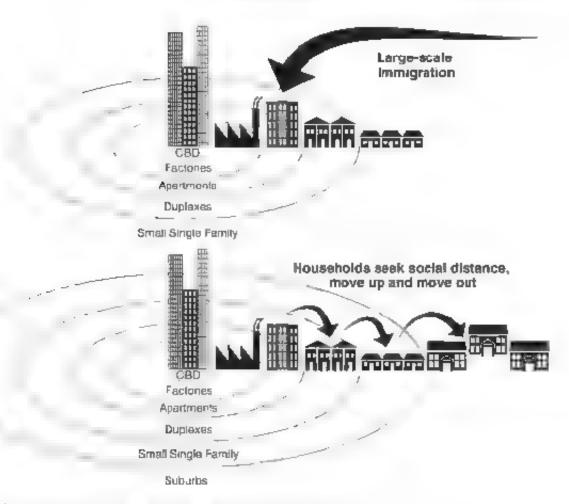


Figure 8.1. Housing market impacts of awas to and succession. Source: Authors

the new occupant of the housing unit vacated by the upper income family had also moved up and out of a neighborhood closer to the central city, thus creating a new vacancy. Vacancy chains describe this process of successive vacancies, each one in a progressively smaller and older housing unit closer in to the core of the city. From this perspective, housing units in the core neighborhoods of cities became available to new arrivals (i.e., immigrants and domestic migrants) through this process of vacancy chains. New units are added at the edge of the city for the highest income groups, and the rest of the housing stock sequentially and progressively becomes available for lower-income groups.

Filtering is an important associated concept. There are several ways to understand filtering. First, the impact of constructing one additional housing unit on the edge of the city for an upper income family filters its way through vacancy chains to result in a vacant housing unit close to the core of the city, available to newly arriving low income households. Second, individual households filter upward through the housing market, successively occupying larger, more expensive housing limagine a young coaple initially renting a small apartment close to the core of the city. As their financial resources increase through occupational advancement, the couple is able to move into a larger, never apartment farther

Figure 8.2 Hoyt's process of futering in urban housing markets. Source: Authors

out This couple can now afford the longer commute and can maybe even buy a car (recall that Hoyt wrote in the 1930s). After several years, the couple decides to start a family and moves into a small starter house even farther out from the core of the city. As their children grow, they desire a larger house (maybe with a second hothroom) and become more concerned with issues of school quality and neighborhood social stability. Consequently, they move still farther out into a larger house. When the children are in high school (before the financial shock of college!), the family buys a newly built dream home on the edge of the city.

A third, and perhaps the most common, interpretation of filtering applies to the fate of housing units and neighborhoods. Hoyt observed during the 1930s that lower-income families, immigrans, and racial minorities increasingly were occupying ence fashionable neighborhoods with large houses Some of these neighborhoods even became "slums" in notion we will address below). Hoyt explained that filtering applied to neighborhoods in the sense that each new occupant of a housing unit was often of lower income and social sainting than the depaning household. Over time, the once fashionable in-town neighborhood built and snitially occupied by the high-income urban gentry became outdated in terms of the modern conveniences at offered. The bedrooms now tell too small, there was too little closet space, it was difficult to find a place to park the new car on the street, and the knoben locked the atest modern conveniences. When the upper-income family built a new home, they sold their old home to a family with income lower than they had when they originally built the house. When the middle meome family moved out several years later, they sold to a lower-middle-class family, which then sold some years later to a lower-income family or landlord.

Large single-family homes were at some point subdivided into multiple apartments. The neighborhood thus fixtered downward in terms of the income and class levels of the households who resided there floyt saw downward neighborhood fixtering as a natural feature of a healthy urban housing market because it reflected the growth of housing stock

and made housing units available to expanding numbers of low income households in the very locations that were attractive for their easy access to still centralized industrial employment. Downward filtering of the housing stock in some cases eliminated housing from the available stock, if the physical condition of the house deteriorated beyond the willingness of property owners to invest in repairs.

Some observers and policy makers argue that mefficient filtering and premature demonition are the main explanations for inadequate supplies of affordable housing. When construction of new housing for higher-income households was styrmed during the Depression, vacancy chains were broken, filter ing stopped functioning, and housing became overcrowded. As we will see below, Hoyt's ideas about the natural and proper functioning of urban housing markets had a strong impact on federal housing policy and subsequently on the radical post-World War If restructuring of the North American metropolis, Basically, housing policies reflected Hoyt's argument that the proper role of governmental involvement in housing markets (if needed) should be to stimulate. the construction of new housing for higher-income households. Housing for lower-income households would be provided in due course by the natural processes of filtering and vacancy chains.

Life-Cycle Notions of Neighborhood Change

Several urban theorists developed life-cycle or stage models of neighborhood change similar to Hoyt's. Each agreed with Hoyt's basic notion that as the housing stock ages and becomes more out of date with contemporary tastes, neighborhoods inevitably decay both physically and socially. This process was held to be inevitable because it was a natural byproduct of properly functioning economic markets for housing.

Edgar M Hoover and Raymond Vernon (1962) developed a stage model of neighborhood evolution based on their observations of the New York metropolitan area in the 1950s. The housing market processes they describe are similar to filtering

as described by Hoyt, and the evolution of neighborhoods resembles the predictions drawn from the Chicago school's discussion of invasion and success on Hoover and Vernon identified five stages in their attempt to understand how neighborhoods' housing stocks changed along with their demographic characteristics:

- Stage 1 Initial arbanization—typically occurs on the fringe of the city
- Stage 2. Transition—population growth continues, density increases, and multifamily housing begins to be built.
- Stage 3: Downgrading—older housing stock is converted to multifamily use, densities continue to increase, and the housing stock physically deteriorates
- Stage 4. Thinning—population declines, household size shrinks, housing units become vacant and are abandoned
- Solge 5 Reneway observe and single replaced with in altifular y bandings, and the intensity and efficiency of land use increase Renewal was alought to often require public sector involvement.

Other scholars modified the Hoover and Vernon stage model. Anthony Downs (1981), for example, conceived of neighborhoods in stages along a continuum between health and viability. His five stages are: (1) healthy and viable, (2) incipient decline, (3) clearly declining. (4) accelerating decline with heavy deterioration, and (5) abandoned and nonviable. Significant changes in neighborhood social composition occur in stages 3 and 4 as renters replace owners, the poor replace the working class, and the fate of the neighborhood is deeply questioned. Unlike Hoover and Vernon, Downs recognized that neighborhoods can move in both directions along the continuum, they can be revitalized through changes in the housing market and/or through public interventions.

We have treated housing so far somewhat abstractly as if economic understandings of markets accurately apply to housing. We now discuss ways in which housing market realities differ from the theories. We first consider the failure of housing and finance markets to provide equal access for all groups in U.S. society. Then we discuss the dependency of U.S. housing markets on government involvement. We describe the implementation of the federal government's loan guarantee programs.

during the Great Depression, followed by a discussion of recent federal policy transformations that impact contemporary housing markets. We reveahow institutions and governments wield consider power over the functioning of housing markets.

LNEQUAL ACCESS TO HOUSING

Unequal access has characterized urban housing markets for many decades. As we will discuss in Chapter 10, immigrants flooding into industrial cities in the late nineteenth and early twentieth centuries often lived in very poor housing conditions-overcrowded tenements and physically deteriorated housing stock. Inadequate and overcrowded housing conditions also plagued later in-migrants-African Americans migrating from the rural South. Although low income undoubtedly explains part of the problem, housing markets did not function the same for immigrants or blacks as they did for whites. Participants at the time clearly reengnized this fact, intentionally creating a dual housing market, one for whites and the other for blacks. We discuss in Chapter 9 some of the tactics used to create and enforce racial segregation. Here we examine how these factics affected the functioning of housing markets.

Real Estate Agents and Differentiated Access

Several forms of discrimination accompany housing market transactions for both renters and homebuyers. A useful framework for thinking about discrimination as part of the housing market transaction is provided by John Yinger (1995). Yinger discusses three stages of housing market transactions, following an initial query about an advertised unit in which discrimination can potent ally occur Stage I involves information about available housing units. Discrimination can occur when information is withheld, which demes access to housing, and when home seekers are shown fewer units because of their race, which constrains access to housing. Stage 2 involves interacting with sales and rental agents, negotiating

the terms and conditions of contracts, and receiving advice and assistance with regard to needed financing. When minorities receive less favorable treatment, their access to housing is constrained. Stage 3 involves the geographic location of units (other than the advertised units of interest). When reaters and buyers are steered toward and/or away from housing based on the racial or class composition of the neighborhood, their access to housing is constrained

Housing discrimination was routine and overt in the early twentieth century. Some landlords refused to rent to minorities. Some white real estate agents did not conduct business with blacks. Some black real estate agents also contributed to discrimination and segregated neighborhoods by showing blacks properties only in black areas, or, in times of housing shortages, in neighborhoods adjacent to black areas. Black real estate agents have been accused of spurring racial transition by practicing block busting techniques (discussed more fully in Chapter 9).

Laws to ban explicit discrimination on the basis of race were passed in the 1960s and 1970s as the civil rights movement gained success. Nevertheless, claims of racial discrimination in housing markets continued. We have seen a reduction over time in the amount of explicit discrimination by housing market gatekeepers and an increase in more subtle forms of discrimination. Research conducted in the 1970s and 1980s confirmed that landlords, property managers, and real estate agents practiced a variety of discriminatory techniques.

Margery Austin Turner (Turner et al., 2013) coordinated the most recent national examination of racial discrimination in housing market transactions, known as the Housing Discrimination Study of 2012 HDS2012), using the long-standing methodology of fair housing matched-pairs auditing. Previous national studies were conducted in 1977 (the Housing Market Practices Study, or HMPS), in 1989 (HDS) and in 2000 (HDS2000) Carefully trained pairs of applicants (called testers or auditors), matched on all employment and financial characteristics, were sent to inquire after publicly advertised available housing units. The only difference between pairs was

race—some were black, some white, and some Hispanic or Asian Detailed notes were kept by testers of the transaction, including the actions of real estate and rental agents. The information was analyzed in order to evaluate how often the pairs received differential treatment, The studies interpret differential treatment as indicative of systemic racial discrimination when white auditors consistently receive preferential treatment over nonwhite auditors.

Results (Turner et al., 2013) show that nonwhite groups expenence considerable discrimination in both gental and sales housing market transactions. Direct and biatantly racist forms of discrimination (e.g., refusing to talk with bracks or other unporties. slamming doors, and so forth) are much less common today than in earlier decades. Inducet forms of discrimination, often carried out with a smile and a handshake, are now more common and are more difficult for individuals to delect. Table 8.2. lists multiple parts of any rental or sales housing search, preferential treatment can happen at any of these stages and often occurs in more than one. HDS2012 reveals that whites receive preferential treatment in many, though not al., of these stages of housing search. John Yinger (1995) calculated, using he most conservative discrimination measure from the 1989 HDS, that the chance of encountering some form of discrimination at some point in the housing search process are very high, both because preferential treatment can occur at many different stages of the search process and because most people interact with many agents as they search for housing.

Figure 8 3 shows summary measures of preferential treatment in rental and sales housing transactions from the 2012 study. When renting, black, Hispanic and Asian testers were told about and showa significantly fewer units than white testers. The magnitude of the apparent discrimination is even greater in sales market transactions for blacks and Asians, where whites were told about and shown substantially more units. Figure 8.4 shows that discrimination in rental markets has decimed for blacks and Hispanics over the last several decades and yet remains high in sales markets, especially in the less blatant measure of preferential treatment in

Table 8.2 Indicators of Adverse Treatment in Rental and Sales Housing Transactions

Rental Housing Transactions

- 1 Companible Information 9
 - Was the advertised housing unit available?
 - Were samilar anits available 1
 - How many available units were reconn conted?
- 2 Ability to Inspect Units?
 - Was the advertised unit inspected (if available)?
 - Were similar units inspected (if available)?
 - How many units were inspected⁴
- 3. Housing Unit Costs
 - Was an application for required?
 - Were rental, accentives offered?
 - What security deposit was required?
 - How much was the rent for the advertised that (if available)^a
- 4. Agent Hetpfulness
 - Did the agent make follow-up contact?
 - Was tester told s/ho was quatified to rent?
 - Were arrangements made for future contact?
 - Was the tester asked to complete an application?

Housing Sales Transactions

- 1 Comparable Information?
 - Was the advertised housing anit available?
 - Were similar units available?
 - How many available units were recommended?
- 3 Abusty to Inspect Units⁹
 - Was the advertised unit inspected (if available)?
 - Were similar units inspected (if available)?
 - How many units were inspected?
- 3 Mortgage Finance Options
 - Was help with financing offeren?
 - Were specific lenders recommended^o
 - Were down payment requirements discussed?
- 4 Agent Helpfulness
 - · Did the agent make follow-up contact?
 - · Was tester to dis/he was qual-hed to buy?
 - Were arrangements made for future contact?
- 5 Neighborhood Difference
 - Average percent white for neighborhoods where recommended homes were located?
 - Average percent white for neighborhoods where inspected homes were located?

Source: Adapted from Turner et al., 2002

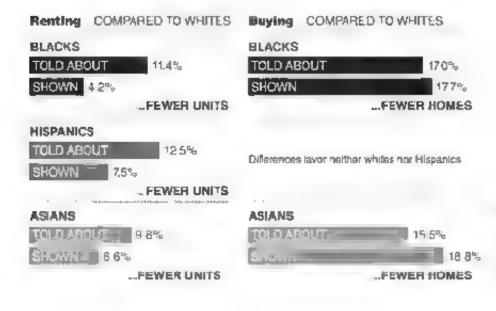


Figure 8.3 Differential treatment of nonwhate borne seekers to rental and sales markets 2012 Source Adapted from Figure ES post in Turner et al., 2013

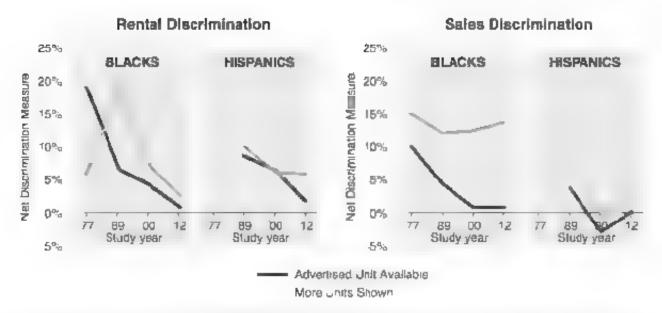


Figure 8.4. Long term trends in discrimination against blacks and Hispanics in rental and sales markets. *Nource* Adapted from Figure ES-10, p. 338, and Figure ES-12, p. 338, in Turner et al., 2013.

the number of units shown to testers. Overall, despite the reductions in overt discrimination, subtle forms of racially preferential treatment remain too common in both cental and sales market transactions.

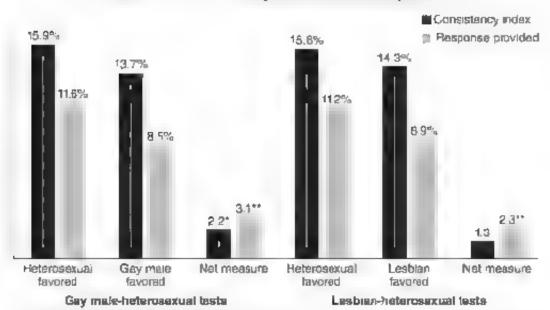
In addition to studying racial discrimination in bousing markets, HUD commissioned a sim-Jar study of housing market discrimination for same-sex households conducted in 2011 (Friedman et al., 2013) that focused on rental units advertised online Figure 8.5 shows that heterosexual couples are favored over both gay and lesbian couples in terms of their overall encounters (the "consistency index") and in the more narrow sense of whether they received any response to email inquiries about advertised and 8. Prefer that treatment was recorded in all metropoutan areas and in all regions of the country. The most conservative "lower bound" estimate of discrimination is significant for three out of the four comparisons.

Steering is an inherently geographic form of discrimination defined as "behavior that directs a customer toward neighborhoods to which people of his or her racial or ethnic group are concentrated" (Yinger, 1995, p. 51-52). HDS2012 conducted a

detailed examination of steering and found that agents steer by racially differentiating recommended neighborhoods, houses shown, and opinions about neighborhoods. Steering exacerbates racial segregation when whites are encouraged to take housing in more predominantly white neighborhoods than are minorities (or, conversely, minority households are steered to racially diverse or predominantly minority neighborhoods). Steering may also exacerbate class-based residential segregation when whites are directed towards more affluent neighborhoods than stinilar minority households, who, in turn, may be directed towards mixed or lower-income neighborhoods.

Table 8.3 reports the degree to which black, Hispanic, and Asian testers were told about or shown homes in more segregated neighborhoods than their white counterparts. Geographic steering by agents is most prominent for black testers, followed by Asian testers. Even though Hispanic testers showed similar patterns, we are less confident statistically that the differences are meaningful. The other forms of steering are less consistently evident in the analysis.

Adverse Treatment of Gay and Lesbian Couples, 2011



Significant at the p≤ 95 level. "Significant at the p≤ 01 level

Figure 8.5 Discriptionation against gay and lesbian couples. 20 1. Source. Adapted from Figure E-1 p. vili in Friedman et al. 20 3.

Table 8.3 Indicators of Geographic Steering for Black, Hispanic, and Asian Testers

	White	Black	Difference	White	Hisponic	$D_{ifference}$	White	Asian	Difference
For homes recommended:									
% (in whiter tracts	24.8%	15.8%	E 8.0	27.6%	20.8%	1.8	25 6%	21.0%	4.6
Ave age & white	66.1%	64 3%	B 8	53.5%	5.3 7%	4).4	59 3%	58.0%	1.2
For homes shown									
% in whiter tracts	20.5%	15.5%	5.0	25.8%	20.8%	5.1	25.4%	19.5%	5.9
Average % white	67 3%	65 8%	Ţ4	96 1%	55 8%	0.2	58.8%	57.5%	1 3

Source Exhibits IV 19 1V-24 & IV 29 pp 56,60 & 64) in Turner et al., 20, 3

Note: Shading indicates a statistically agrificant difference (dark p< 05, light p< 10

Discrimination in Lending

Race has long played an important role in housing finance markets. Private market lenders discrimmated against minorities in many ways well before the Depression. First, they often practiced hlatant discrimination, that is, they simply refused service to mmority customers. Even if black customers had sufficient income and wealth for a down payment, many banks simply refused to lend them the money necessary to purchase housing

Second, lenders devised a method of evaluating lending risk that denied capital to black and

minority areas of the city based on the premise that the presence of blacks, Jews, and other ethnic minorities in a neighborhood would be detrimental to the long term value of properties within those neighborhoods. This practice came to be known as redlining because neighborhoods deemed unacceptably risky due to racial and ethnic composition were often colored red on the maps used in the loan approval and appraisal processes (see Figure 9.4)

Redfining was adopted by the federal government in home finance programs established during the Depression. Under the Federal Housing Authority (FHA) loan guarantee program, discussed below, redfining had devastating consequences that we discuss in more detail in Chapter 9. Here, we simply note that federally supported redaining both denied much-needed capital to minority and central city neighborhoods and excluded blacks and other minorities from the rapid auburbanization of the post-World War II decades.

The federal government eventually prohibited reducing in its own programs and passed laws banding discrimination by private lenders. The 1975 Home Managage Disclosure Act (HMDA) required that lenders report the amounts and locations of the mass they make. The 1977 Community Remivestment Act (CRA) required lenders to make loans in the areas from which they drew deposits, including central city and minority neighborhoods. Claims of lending discrimination persisted, however, despite the federal government's policy changes, community activists used HMDA data to show that lenders kept making the majority and highest dol or value of their mortgage loans to predominantly white and suburban areas throughout the 1980s.

The discrimination debate shifted in the 1990s from redlining to applicant level discrimination Research, including a major study by the Boston Federal Reserve Bank that used detailed confidential data, generally supports claims that black and minority applicants are more likely to have their applications denied, even when controlling for borrower characteristics that banks use to evaluate risk.

The debate over lending discrimination shifted again in the late 1990s and early 2000s to issues of predatory lending and reverse redlining. Because

of major changes in housing finance markets in the late 1990s, lenders became much more willing to lend to applicants who would have been considered unacceptably risky two or three decades ago. In fact, a whole industry segment called subprime lending exists to handle many of these loans. To compensate for the higher risks, lenders are allowed to charge higher fees and higher interest rates on subprime loans. Certainly, not all companies making. subprime loans are guilty of predatory lending practices, they provide much-needed credit to customers with a flawed credit history, or irregular employment, or any of the other factors that make a borrower risky. Claims of predatory lending emerge. however, when lenders treat applicants unethically Immerg.uck and Wiles (1999) usefully identify four categories of predatory lending practices, listed here with examples.

1. Sates and marketing

- high pressure, door-to-door sales
- targeting vulnerable populations (e.g., those with health debts, etterly, less educated)
- steering to higher-cost loans despite horrower qualifying for lower-cost credit
- · flipping-excessive refinancing
- home improvement scams, in which contractors act as loan brokers

Excessive fees.

- 'packing" loans with unnecessary fees, including credit life insurance, which are often financed in the loan
- padded closing costs or third party fees
- excessively high points or origination fees.
- high broter fees, including yield spread premiums.
- 3. Terms that wap borrowers into unaffordable financing.
 - balloon payments, which conceal the true cost of financing
 - negative amortization, in which payments are less than interest, resulting in an increasing principal balance and decreasing owner equity
 - prepayment penalties
 - "asset based" lending, amoning repayment about v
- 4 Other froudutent or deceptive practices
 - reporting inflated income figures.
 - fingeries
 - insufficient or improperly timed disclosure.
 - inflated appraisals, in part to enable secondary manket sale

BOX 8.3 SUB-PRIME MORTGAGE LENDING AND THE RACIAL GEOGRAPHY OF FORECLOSURE

Much of the policy and public concern about predatory tending is the substantial personal financial loss suffered by its victims. One dire consequence can be the loss of property due to foreclosure. Unforturately, foreclosure is a broad problem that has

substantial impacts on the residential geography of othes, especially following the housing market collapse and global economic methdown of the are 2000s. Critics claim that waves of foreclosure follow booms is subpraise landing, and that negative impacts are unfairly concentrated in



Figure 38.1 Forecoveres in Change relative in minor y neighborhoods in 1995 and (b) 2002. Some Figure 3 in Immerganck, Dan and Geoff Smith, 2005.

Predatory loans were often associated in the late 1990s with refinancing and home improvement loans. In the 2004–2006 run-up to the global financial crists, subprime and Alt-A (less risky than subprime, but still too risky to be classified as conventional) lending increased dramatically, accounting for about

40 percent of the mortgage market at the peak. These cans, and their subsequently high levels of default and forecosure, played a primary role in precipitating the global financial crisis of 2008. We will explain the connections in a section below. Central to the concerns of analysts and community activists,

many minority and low-income neighborhoods. Foreclosure rates are much higher among subprime toans. While on face value this is not too surprising, given that subprime borrowers are generally more financially risky, critics point out that subprime lending is heavily concentrated in minority and low-income neighborhoods and that many low-risk borrowers are steered lato subprime toats. As a result, there is a strong association between the geographic location of foreclosures and the geographic concentration of minority and low-income populations.

Dan immerglock and Geoff Smith (2004, 2005) studied the distribution of force matres that followed the are 1990s wave of subprinte leading (i.e., before the fluorical erisis) relative to underlying racial patterns, and document the clear concentration of the growing number of forcelosures in Chicago's minority neighborhoods (Figure B8.1). Their statistical analysis shows a straig relationship between the concentration of subprime leading in intentity and

low-meome neighborhoods, and the subsequent concentration of foreclosures. The financial costs both amplified. the previous trend and set in motion new geographic dynamics. Figure B8.2 shows for Atlanta, Georgio that foreclosures (Real Estate Owned properties, or REOs. have gone through foreclosure and are most often owned by the lender) are concentrated in Atlana's poorest neighborhoods, which are almost all majority nonwhite Carefu, examination also reveals, however, that the suburban parts of Fulton County, both north and south of the central city, also have noticeable concentrations of REOs. Some describe the forcelosure pottern as a donot high. in the disadvantaged, often racialized central city neighborhoods that were already prone to high foreclosure and vacancy rates now jorned by exurban and suburban neighborhoods where foreclosures prior to the crisis were relatively rare.



Figure B8.2 Foreclosed properties purchased by leading institutions (REOs, in 2008 and 2009, associated with median family income *Source*: Modified from Figure 8, p. 57, in Immergack, Dan, 2012

both in the late 1990s subprime boom and in the much larger 2004–2006 boom, is that subprime and predatory lending, and thus foreclosures, are unduly concentrated in minority and low income neighborhoods—many of which had been deprived of capital due to earlier redlining (Box 8.3)

Accumulated Impacts of Housing Market Discrimination

Having shown that housing and leading markets are discriminatory, we now ask: What are the impacts of discrimination? Yinger (1995) argues that even subtle and hard-to-detect forms of discrimination.

compound, or accumulate, to exact a severe financial cost—a discrimination tax. Discrimination (1) reduces the number of housing units seen, (2) makes the search process inefficient and more costly (3) increases the difficulty in finding appropriate financing, (4) increases the chances that mortgage loan applications will be depied, and (5) increases the actual costs of moving

Yinger estimated that black and Hispanic households paid between \$3,000 and \$4,500 (in 1990 dollars—between \$5,000 and \$7,800 in 20.3 dollars) more for housing. When we add up the number of black and Hispanic households who move over a three-year period, the total costs of discrimination would add up to between \$11 and \$.6 billion (1990 dollars). Even though the incidence of discrimination has declined some since Yinger's study (and his estimates of the discrimination tax should be taken as high-end est mates), housing market fat mgs are not trivial.

GOVERNMENT INVOLVEMENT IN HOUSING MARKETS

Buying houses prior to the Great Depression was limited to those with considerable means. Historical data show that a far smaller portion of the population owned their own house during this period than is the case today (Figure 8.6). One of the reasons that home ownership was less prevalent was because the economy generated less wealth. Yet a more important reason was the nature of housing finance.

Historically, as today, purchasing a house requires much more money than most households have within easy access. Most people buying houses must borrow at least a portion of the purchase price. Prior to the Depression, lending institutions were much more restrictive in the way they tent money to buy houses. First, borrowers had to have a large amount of cash—upwards of 30 to 50 percent of the total purchase price. Second, lending institutions were willing to end money only for short periods, often no more than six or seven years. Borrowers had to be able to afford a larger monthly payment. Finally, lending institutions shouldered their own risk. They charged

high interest rates on home purchase loans. From a supply perspective, most housing was not built speculatively. Rather, it was constructed only when a household was financially able to enter into a contract with a builder.

Socuring Home Ownership through Loan Guarantees

The Great Depression greatly affected the nature of home ownership. Its economic dislocations reduced the income even of apper-income households. Demand for new owner-occupied housing dried up. and economic troubles expenenced by households with existing loans further imperied the banking industry. The construction industry stalled signifcantly. The federal government under President Franklin Roosevell recognized the importance of the housing and finance industries to the nation's economic prospects. Housing demand was considered too sensitive to economic cycles and too narrowly restricted to upper-income households. The federal government focused on financing housing purchases. Many of the changes instituted in the Depression did not have dien maximum effect until after World War II

President Roosevelt established the Home Owners Loan Corporation (HOLC) early in the Depression to provide immediate relef to home-owning households. Loans were provided directly to homeowners who had already, or were about to, lost their homes. The scope of the HOLC's impact was limited because the federal government loaned money directly to homeowners and because program beneficiaries already owned homes.

Later, to reduce the financial burden on the federal government while at the same time broadening the impact of its policy, Roosevelt began a new finance program under the auspices of a new agency, the Federal Housing Administration (FHA). FHA programs operated differently than the HOLC and ultimately had a much more dramatic impact on housing markets and the nature of cities. Rather than direct loans, the FHA provided incentives for private-market lenders to increase lending by guaranteeing that the government would pay lenders if borrowers failed to maintain loan payments.

70 85 80 55 60 45

1910 1920 1930 1940 1950 1960 1970 1980

Year

Homeownership Rate, 1890-2013

Figure 8.6 Homeownership rates over time in the twentieth and twenty first centuries. Source: Authors, based on annual data for 1960-2013 from U.S. Bureau of the Census, Department of Commerce http://www.census.gov/housing/hys/data-hast abs html), and decenma. Census data for 1890-1960

Federal loan guarantees had several important features. First, lending institutions were required to fully amortize the loans. This means that lenders received most of the interest paid by borrowers at the beginuing of the payback period and were thus wiining to structure loans that could be paid back in full over a longer period. The mittal 20-year period was later extended to 25 and then again to 30 years. Monthly loan payments would be considerably reduced. Second, smaller down payments were required-20 percent versus the 30-50 percent previously required. Borrowers needed less cash to buy a house. Third, interest rates dropped dramatically because the federal government ultimately bore the financial risk The new program significantly reduced the total and monthly costs of buying houses

One problem with loans amortized over 20 to 30 years is that they tie up the lender's money for a long period of time. To make sure there was enough money available to lend as mortgages, the Federal National Mortgage Association (Famile Mae) was created in 938 to buy government-backed loans from the banks and thrifts that originated them and to sell them to investors. Banks and thrifts could give out a loan without having to carry it on their books for the entire term of the loan. It gave lenders more money to lend

Another impor aspect of federal housing poicy put into place during this period is the home mortgage interest income tax deductiona. Homeowners can deduct the amount they pay on mortgage interest from their income when computing federal taxes. Significantly, most of each month's payment in the early years of a long-term amortized mortgage goes to paying interest. Being able to deduct these interest payments is a substantial financial benefit and provides households with extra meentive to purchase houses. As we discuss below, suburban areas enjoyed the greatest benefit from federal programs in general and from the tax policies in particular

The impacts of the FHA program were just beginning to be felt when World War II erupted and housing construction halted. The program remained in effect, however, and was expanded after the war, dramatically contributing to decentralization and sprawl, issues that we turn to later in the chapter. In terms of the basic issue of stabilizing and even expanding the demand for housing and thus stabilizing the construction and banking industries, the new federally supported housing finance system was a success.

The Depression-era system of housing finance had its greatest impact in the economic boom years of the post. World War II decades, when the FHA and the similar Veterans Administration (VA) loan guarantee programs enabled millions of households to purchase housing at reasonable costs. Homeownership

rates increased dramatically (note the steep increase between 1940 and 1960 in Figure 8.6). In addition, as we discussed in Chapter 5 and also later in this chapter, the spatial form of cities changed dramatically because built in biases of the system favored newly built housing in suburban areas.

The Secondary Mortgage Market: A New System of Housing Finance

The housing finance system changed significantly after World War II Commercial depository banks and smaller savings and toan (S&L) institutions (also called thrifts) initially provided the majority of the capita, that homeowners used to buy houses. Even though the man one of loans guaranteed through the FHA and VA programs could be, and were, sold to investors, the problem of an inadequate supply of money to loan to homebuyers remained. The solution was to create a robust secondary mortgage market in the late 1960s to early 1970s that allowed many ways for loans to be sold to investors. Farme Mae was split into two parts in 1968-FHA and VA loans were now handled by newly created the Government Nadonal Mongage Association (Climie Mae). Fannie Mae was allowed to buy nonguaranteed loans-so-called conventional loans, which had really strict criteria to make sure there was a minimal nsk of default. The Federal Home Loan Mortgage Corporation (Freddie Mac) was created in 1970 to provide competition for Fannie Mae. Given their important role in facilitating the circulation of capital through housing markets, we now refer to Fannie Mae and Freddie Mac, along with a few other entities, as government-sponsored enterprises (GSEs).

One of the biggest innovations during this period was the creation of mortgage-backed securities (MBSs). Many more investors will be interested in buying mortgages—thus providing a lot more money for lenders to loan—if they don't have to buy loans one at a time and hold on to them for the life of the loan. Fannie Mae, Freddie Mac and Ginnie Mae bought large numbers of mortgages from lenders. They pooled the mortgages together and sold shares in the pools as securities to investors. Investors liked MBSs because they provided a very consistent return

on investment based on the mortgage payments made by thousands of homebuyers each month. They were also very safe. The MBSs created by Ginnie Mac were based on formally guaranteed FHA and VA cans—the federal government was already committed to bailing out defaulted loans. Even though the MBSs offered by Freddie Mac and Fannie Mac were not formally guaranteed, they did meet high standards—what the industry calls prime loans, and investors assumed that the federal government would provide an implicit guarantee for these conventional cans, an assumption that proved to be correct during the recent mortgage crisis.

MBS) were considered very safe, if somewhat boring, investments for several decades because of the financially conservative oversight provided by the federal government. The conventional (i.e., not FHA or VA) loans that were purchased and packaged together as MBSs had to follow strict guidelines in terms of the borrower's financial charactenstics, including income, credit history, and debt load-when they did, they were known as conforming loans. By selling both government-secured and conforming conventional loans into the secondary market, leading institutions gained the ability to pass on the financial risk inherent in making long-term louns and have access to a steady and reliable source. of capital that they could then use to make new .cans. Individual investors are protected from risk by buying securities, based on buildles of loans, which are not immediately threatened by the failure of individual loans as long as there are not too many leans that go into default. The secondary mortgage market worked very well from the 1970s and into the 1990s, resulting in an increase in home ownership rates with intle increase in defaults

Promoting Homeownership to Address Inequality: Promise and Peril

Beginning in the 1990s President Clinton's administration sought to harness the logic of spreading risk through the secondary mortgage market to address social inequalities in the housing market. The Department of Housing and Urban Development (HUD) required that the GSEs increase lending

traditionally underserved markets—low and moderate income families and minorities—in order to increase homeownership rates, especially in low-and moderate-income and minority neighborhoods. Lending institutions were allowed to retait down payment requirements so that borrowers could qualify for loans with as little as a 3 percent down payment. New GSE guidelines also allowed higher debt levels for homebuyers and became more flexible on requirements regarding employment and credit histories.

The relaxed lending standards implemented by lending institutions in response to GSE requirements might have contributed to increased homeownership beginning in the late 1990s (Figure 8.6), especially among low- and moderate-income borrowers and in low- and moderate-income neighborhoods. The increased risks of loan default were spread across secondary mortgage market investors based on the oversight of the GSEs, who were unually responsible for acquiring and packaging qualifying loans.

HOUSING MARKETS AND THE GLOBAL, FINANCIAL CRISIS

The global economy entered into the worst recession since the Great Depression in late 2008. The economic problems that sparked the depression, however, began in late 2007, when the United States

entered into recession, and were prompted by events in the U.S based housing and housing finance markets. While these events are complex, they are closely related to the material we are discussing in this chapter and deserve some reflection. This section will provide a simplified explanation that focuses on four interrelated trends that created extreme vulnerability (1) the house price bubble, (2) an aggressive increase in subprime lending, (3) the rapid increase in unregulated private-label MBSs fueled by the global demand for real estate-based investments. and (4) the grossly incorrect quality grades assigned to MBSs. When the housing bubble popped in mid-2006, foreclosures mereased dramatically, especially among subprime loans. The impact of the foreelosures spread rapidly throughout the U.S. and global economy because of the exposure of the financial system to subprime-backed MBSs, which were much more risky than anticipated by the ratings agencies. Credit markets froze, large investment corporations failed, and national governments around the world scrambled to intervene to save the system

House Price Bubble

Housing prices began to rapidly increase beginning in the late 1990s relative to long-term historical norms. The price boom was fueled by speculative investment and lasted through the inid-2000s (Figure 8.7). In hindsight, these increases were



Figure 8.7 The housing market bubble real house prices since 1950. Note the extremely sharp rise starting around 2000 and ending around 2006 Source Authors based on sara from http://www.econ.yale.edu/~shiller/data.htm

a specimative bubble that could not be sustained Several things happened. One, many homeowners sought to lake advantage of their home's appreciated values by taking out home equity loans and second mortgages to pay for college education for their kids as well as many other consumer goods (e.g., second homes, larger and newer cars, vacations) Two, many homeowners began to see their homes even more as a source of wealth building, and began to engage in riskier speculative home-buying practices, often buying homes more expensive than they could reasonably afford. They assumed that home values would continue to increase, which would provide the extra equity against which they could borrow in the future, as needed. Or, perhaps more importantly, they assumed that they would always be able to sell their homes, both if necessary due to economic hardships and in the transition to retirement.

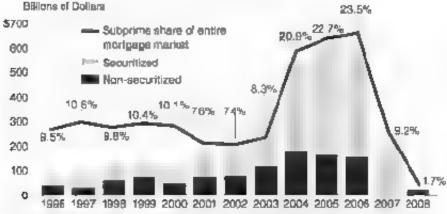
Subprime Lending Expands (Again)

Beginning in 2003, lenders began to issue many more subprime and otherwise risky loans. Earlier waves of suborime lending had been concentrated in refinance and home improvement segments of the market -- this wave centered on home purchases. Figure 8.8 shows that the volume of subprime lending trabled between 2002 and 2005. Subprime lending consumed almost 25 percent of the total mortgage market by 2006. The dramatic increase in risky lending occurred largely because these loans proved to be extremely profitable for lenders and other institutions in the increasingly complex mortgage finance market. Importantly, giobal investors drove many of the worst practices, such as no-documentation loans (sometimes referred to as "hars loans") by creating an enormous demand for the securities based on subprime loans. Industry practices, such as reliance on mortgage brokers to process loan applications and the fact that the institutions originating loans almost always sold them to the secondary mortgage market meant that there was no incentive to be concerned with the quality of the loans and the financial credentials of borrowers. Many subprime and other risky loans were justified on the premise that house values would continue to increase, which would allow troubled borrowers to sell if necessary

Private-label Mortgage-Backed Securities

One of the features of the mid-2000s global financia. market that greatly promoted subprime lending was the very active secondary mongage market for risky leans. Whereas the secondary mortgage market for government guaranteed and conforming Ipans had for decades created re-table if low-return investment opportunities, financial institutions other than the GSEs began to participate much more heavily. GSEs were not allowed to buy risky subprime loans for inclusion in the MBSs they created. A few large

Subprime Mortgage Originations



Note: Percent securitized is defined as subprime securities issued divided by onginations in a gvan year in 2007 securities issued exceeded originations.

Figure 8.8 Supprime mortgage lending, 1996-2008. Subprime loans increased rapidly between 2003 and 2006 both m absolute dollars and in the share of the entire mortgage market. Most of these risky loans were securitized. The subprime market collapsed as the global financial crisis started Source: Adapted from Figure 5.2, p. 70, FCIC, 201.

investment companies began to experiment with creating their own "private-label" MBSs in the late 1970s. The first such security based on subprime loans was issued in 1988. Through the 1990s, pnvately securitized subprime loans (i.e., those loans that are sold and packaged into investment products by non-GSE entities) remained a modest share of the market, with non-securitized subprime loans typically held in the portfolios of lending institutions. The great expansion of subprime lending that began m 2003 was mostly accompanied by a dramatic increase in privately packaged divestment products that included substantial numbers of risky loans. Not all private label mortgage backed securities were subprime loans. Figure 8.9 illustrates the total impact of private-label secuntization on the market Starting in 2003 the volume of loans held in portfolio decreased at the same time that the volume of lending ending up in private securities increased. One important result is that the share of the mortgage market processed through the GSEs declined dramatically as they lost market share to the private-label portion of the market

Note that the GSEs were still buying and securiazing relatively safe loans-even though the guidelines for prime loons had been relaxed in service to fair housing goals, the GSE processed loans performed very well throughout this period. The private-label securities were subject to no oversight and almost no regulation. In part this stems from neoliberal efforts to deregulate financial markets, symbolized by the repeal of important parts of the Depression-era-Glass-Steagall Act, which prohibited commercial banks (those that take deposits) from engaging in risky investments and prohibited investment banks from taking deposits. The Financial Services Modernization Act (aka Gramm-Leach Bluey Act) of 1999 allowed traditiona, banks to consolidate with investment banks, insurance companies, and securities firms for the first time. This allowed increasingly

Private-Market and Government-Backed Mortgage Originations, 2001–2012

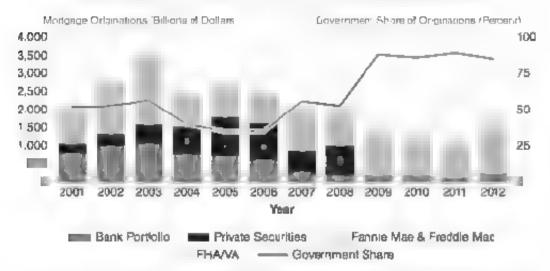


Figure 1.9 Volume of mortgage originations, by type, and government there of originations 2001–2012. Private sector (bank portfolio and private securities) entities increased the volume and share of mortgage originations in the years prior to the financial crisis, with private securities increasing dramatically starting in 2004. After the collapse, GSE backed and FHA/VA guaranteed toans were the main sources of mortgage loans. *Source:* harvard Joint Center for Housing Studies. The State of the Nations Housing 20.3 www.jchs.harvard.edu. All rights reserved.

complex and very large financial institutions, like Caugroup (formed from the merger of Citicorp with Travelers Insurance) to speculate in new and (mitia...y) profitable ways. These entities were eager to (ssue MBS) and more complex investmen products because they returned a very high profit. Part of the profit potential derived from intense global demand for MBSs. Given the long track record of well-managed low-risk MBSs issued by the GSEs, global investors assumed that private label securities were similarly low risk. There was plenty of money in the global economy looking for safe investments because of oil wealth (which ticked upward as oil prices skyrocketed) and the far are of earlier investment booms, and U.S -based MBSs appeared to be an ideal solution.

Credit Rating Agencies and False Confidence

Part of the reason private-label MBSs appeared to be low-risk investments was that the three credit ratings agencies responsible for rating the risks associated with investment products (Standard & Poor's, Moody's, and Fitch Ratings) routinely gave private-label MBSs full of subprime loans their highest ratings Specifically, the MBSs and more complex products were lumped into groups (known as tranches), which were then rated. Even though the least risky groups contained large numbers of risky and subprime loans, the ratings agencies rated them as AAA securities. The more complex investment products were based on pooling the MBS tranches and retranching the new pool. These were then also rated by the agencies. Even when the first stage MBS tranches were rated as risky, many of the second-stage tranches were rated AAA by the ratings agencies. This enabled many institutional investors (e.g., pension funds) and foreign governments to purchase what they thought were low-risk investment products.

As we know now (and as some predicted before), the housing bubble did not last (all irrational speculative bubbles pop). When the housing bubble popped in 2006, house prices began to fall precipitously (Figure 8.7). This meant that troubled homeowners owed more than their homes were worth (they were

Loans Delinquent and in Foreclosure

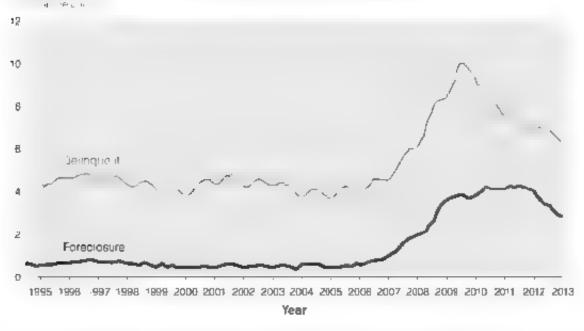


Figure 8.10. Foreclosure and desirquency rates, 1995, 2013. Source: Adapted from since 12. Loan Processing Services, 2013.

underwater). They began to default on their loans in arge numbers (Figure 8.10). Because so many risky loans were part of private-label MBSs and the more complex repooled investment products, the impact of delinquencies and foreclosures was impossible to contain. Once it became apparent that the AAA ratings of many of the mortgage based investments were grossly overrated, many investors no longer knew the value of their investments. Financial markets froze and the Great Recession ensued Because the mortgage-based investments were a major portion of global financial markets, the U.S. housing crisis had global impact and initiated a severe global economic downturn

SUBURBAN HOUSING AND POST-WORLD WAR II SPRAWI

Perhaps the dominant geographic trend to characterize housing in North American cities in recent history has been the rapid and extensive spreading out of cities—suburbanization and urban sprawl. As Box 8.4 shows, sprawl can be defined in several ways. When and how did this happen? We have discussed various aspects of suburbanization in previous chapters; our concern here is the housing that gets built on the edges of cities. Many experts correctly identify the decades following World War II as a key period of suburbanization: the anture and intensity of suburbanization after World War II increased dramatically and fundamentally changed cities. Even so, recall that suburbanization started well before the war, as described in Chapters 3 and 5.

Part of the explanation for post-World War II suburban sprawl is economic. World War II ultimately proved to be a very effective economic stimulus. The United States found itself in a remarkable position after the war. Most economic competitors had been defeated in the conflict or had been so drained by the war effort as to offer little real competition. The United States was the world's unchallenged economic leader, and experienced robust domestic economic expansion for several decades.

Supply and Demand Factors

The nature of housing demand partially explains the suburban focus of postwar growth. Postwar economic prespenty unleashed several decades of pent-up housing demand that had characterized the Depression and war years. Cities grew rapidly after World War II as thousands of workers found relatively high-paying jobs in the factories that propelled the postwar economy. Most residents could find work, and wages were rising. Economic prosperity mean) that households had extra economic resources. that could be used to purchase housing. It was easier for households with higher incomes to save money for a down payment and to afford the monthly mortgage payments. Households that previously had to make do with crowded and cramped rental housing were now able to move up and out.

Demographic trends also dramatically affected the demand for housing. Millions of military service per sonnel returned to civilian life after the war. Many married, began or restarted careers, and started families, creating the haby boom. The result was a sudden increase in the number of households with young children. Many of these households sought housing with amenity bundles considered conducive to rusing children, and many wanted to buy their own houses. The powerful social ideal of the American Dream—owning your own home (with a white picket fence, a dog, 2.4 children, a two-car garage and a station wagon [later a minivan and more recently a SUV] in the driveway)—became entrenched in the American psyche during these decades.

The intense postwar demand for housing was at first only inadequately met, as home construction had been I mited for more than a decade. Providing new housing units quickly became one of the problems facing the housing industry. The industry also wanted to keep costs low enough so that new households could afford the newly built housing. Several dramatic trends occurred during the postwar decades in the arena of housing supply.

Several innovations in the production process, pioneered by developer William Levitt, made the construction of housing less expensive. In the Northeast, some of the economic principles of mass

BOX 8.4 TECHNOLOGY AND URBAN GEOGRAPHY

WRESTLING WITH SPRAWL: USING GIS TO MEASURE URBAN FORM

Ask people what they do not like about suburbas, and you are likely to get a response involving the term "sprawl." In fact, suburban aprowl has become shorthand for so much that is bad about new commercial and residential developments and why they are often resisted. In the words of Duarty, Plater Zyberk, and Speck (2000, p. x):

cookie-cutter houses, wide, treetess, sidewalk-free roadways, mindlessly curving cut-de-sacs, a streetscape of garage doors. Or, worse yet, a pretentious slew of McMansions, complete with the obligatory gate house. You will not be welcome there, not that you would ever have any reason to visit its monotonous moonscape.

In addition to housing sprawl, entires decry modern retail development, with big box stores swimming in a sea of parking—sometimes called retail sprawl.

Such descriptions have come to embody our perceptions of sprawl, but they have not really belied to define or measure it. There has been considerable recent activity devoted to developing new ways to understand and measure sprawl, using the sophisticated tools offered by GIS. We present in Chapter 5 (Box 5.2) an attempt to predict sprawl using GIS-based techniques. Unfortunately, there isn't uniform agreement on how best to measure sprawl. We present two different approaches here.

First, one team of scholars, including George Galster. Ha. Worman, and Jackie Cutsinger, has focused on using available data to create multiple measures of sprawl for entire metropolitan areas. The team conceptually identified

production based on a division of labor were applied to housing construction. The key was to build several houses simultaneously on a large tract of land Large-scale developers realized several economic advantages. First, supplies were cheaper because suppliers typically charge less per item on large orders. Second, improved production times were derived from using standardized building plans and dividing the building process into discrete units.

seven distinct dimensions along which metropolitan landuse varies: density, continuity (F-gure B8 3), concentration, centrality, proximity, nuclearity, and mixed use. Sprawl is conceptualized as extremes on each of these dimensions

To measure these seven dimensions, the team used a variety of GIS techniques. First, they used satellite imagery from U.S. Geological Survey's National Land Cover Data Base (NLCDB) to identify land that has been or can be developed. By excluding land that cannot be developed and focusing on what they call the Extended Urbanized Area (EUA), their measures are much more accurate and allow them to capture urban growth on the fringe of metropolitan areas. They also used Cousus information on housing and jobs at the small spatial unit possible, and then used GIS to overlay all the data, using for most measures a grid with one square rule cells. The team computed 14 measures of the 7 dimensions for 50 large metropol tan areas, which they subsequently used in a variety of analyses.

In one analysis (Cutsinger and Galster 2006), they identified four "types" of metropo itan sprawl based on their data-dense but deconcentrated, leapfrog, compact and core dominant, and dispersed. Some of the results from this analysis confirm common conceptions, for example, At anta is highly sprawled in a configuration that they term "leaptrog," which is marked by high job concentration, but low housing and job density, low continuity, low housing centrality and low mixed land use. Other results are more surprising, Los Angeles, for example, is characterized by high density of jobs and housing, high continuity, but lowjob proximity and low job concentration. One of their consistent points is that sprawl is too eclectic of a concept to rely on a single measure—their analyses il ustrate the necessity of GIS techniques to address a complex measurement problem and that sprawl is a multifaceted problem.

Rather than having a single work crew build a house from the ground up, task specific crews were organized that moved from site to site within the development For example framers would enter a site after foundations had been laid and build the frame for a tiouse. They would proceed to the next site and frame that house while electricians and plumbers worked on the first house. Each crew, by specializing on a limited set of tasks, could speed up the

Song and Knapp (Song 2005, Song and Knapp 2004). rely on a different approach that also uses GIS to measure sprawl, but ends up with neighborhood-specific measures. rather than measures that describe entire metropolitan areas. Like the Gaister, Wolman, and Cutsinger team, they also conceive of sprawl as a multifaceted problem. that requires multiple empirical measures. Rather than focusing on the spatial patterning of jobs and housing however, they focus instead on characteristics of the built envaronment. They use a GIS based on detailed purce, and road network layers. Their measures are organized mto five theroes: street design and circulation systems street connectivity within neighborhood, median block perimeter, number of blocks per housing unit, median length of cul-de-sacs, street connectivity exterior to the ne ghborhood density (median lot size of single-family development, single-family residential density, median

floor space of single-family units), land use mix energy of commercial chaistria, and public land uses per number of housing units, are essibility (median distance to the nearest econnere ac and use median distance to the nearest bus stop, and median distance to the nearest park), and nedestrian access (percent of langue-family dwelling units within a quarter-mile of existing commercial uses, and percent of single-family dwelling units within a quarter-mucof all existing bus stops). In their empideal examples, they demonstrate that New Urban stand Smart Growth policies in Portland, Oregon have had an effect on neighborhood. design since the early 1990s by increasing single-family dwelling density, internal connectivity (i.e. less use of col-de-sacs), and pedestrian access to commercial land use and bus stops. Even so, external connectivity has decreased. land use mixing remains limited, and house sizes continue to increase

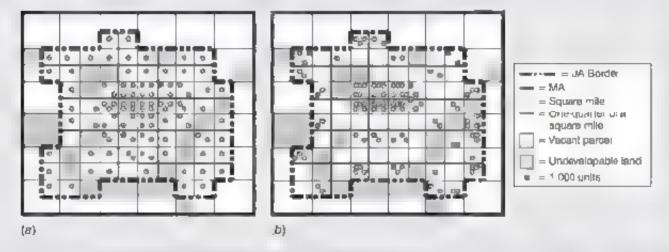


Figure B8.3 Aspects of a scontinuity in High continuity suggests that fand has been developed in a retailvely arbitroken fashion, the Low continuity results from "leapfrog" development. Some e. Galster George et al. 200

process, especially as the building plans were standardized. Crews knew in advance exactly what would be required to complete their tasks.

The trend towards speculative housing development in large subdivisions had several impacts on the nature of housing. First, the new ways of building housing met the goal of making housing affordable to the rapidly growing segments of the

market, young families with moderate incomes. Combined with the FHA and VA loan guarantee programs, mass production construction techniques enabled many households to buy houses for the first time. Second, these processes created a new lond of community—a large number of very similar, relatively small houses occupying relatively small lots. The houses and streets were much more uniform.





Figure 8.11 (a) Aerial photo of Levittown, developed on former potato fields in 1947 (b) Close-up of street in Levit own

(Figure 8.11). Not all postwar suburban housing was constructed on the same scale as the Levittowns, but many of the building and design unnovations were subsequently adopted

Sprawl and the Federal Government: Housing Finance

Rapid development of suburban housing did not result simply from increased housing demand interacting with new ways of increasing housing supply. The new housing finance system put into place during the Depression years had a major impact on the degree and nature of suburbanization. As we inscrissed above, this system helped many households to purchase housing for the first time. The question of where the new housing would be constructed had not yet been answered, however

First, recall that one of the goals of the FHA and VA loan guarantee programs was to expand home ownership. By increasing home ownership, these programs intensified the demand for new housing, most of which was being built in new suburbs. In addition, these programs had a marked geographic bas, directing most benefits to newly constructed housing socated on the suburban fringe FHA and VA lending guidelines specified that houses had to meet minimum physical standards as a safeguard against substandard housing (owners are more likely to default when the structure is in disrepair or would require infusions of cash to fix (tup). These standards were relatively stringent and ended up disqualifying much older housing stock. Builders of new housing typically built to FHA standards in order to qualify for the program

The FHA and VA programs used discriminatory appraisal standards (redlining) until the late 1960s, which also had a spatial bias. Racial and ethnic heterogenery characterized inner-city neighborhoods, and redlining prevented home buyers using the FHA and VA programs from considering houses in many inner-city areas. Ultimately, the vast majority of the millions of dollars in FHA-guaranteed mortgage loan capital was excluded from inner-city neighborhoods, instead financing suburban sprawl.

Sprawl and the Federal Government: Freeways and Automobility

The federal government played another critical role in spurring suburban development when it authorized and financed the national interstate highway system. The plan gained approval during President Eisenhower's administration with the passage of

the Federal Aid Highway Act of 1956 (commonly known as the Interstate Highway Act) and called for a national network of hunted-access highways to be built connecting all major urban areas

The impact of the interstate highways on subtrbanization was enormous. The network (Figure 8.12) at first connected just the major urban areas, providing for easier, quicker, and cheaper long-distance travel (see Box 3.4 for a discussion of the historical development of the interstate network). Importantly, the new interstate highways were sited through the core of most major urban areas, providing new path ways from the core into the hinterland, and between the core and fringe areas of cities. Economically, the interstate system provided a boon to the trucking industry and led to a gradual decline in long-distance rail as a means of transportation.

The impacts that concern us here, though, are those on the cities themselves. The interstate free-ways opened up many areas farther and farther from existing urban cores to new residential development. Residents could commute longer distances in about the same amount of time, thus allowing households to live farther away from existing employment centers. Many of the processes we have already discussed regarding the changing nature of housing in postwar cities were amplified by the interstate system. It became easier to speculatively

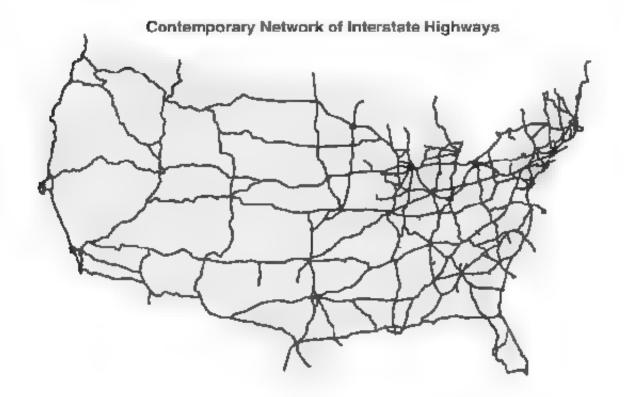


Figure \$.12 Contemporary network of interstate highways. Source: Authors

develop large greenfield tracts of land into residential subdivisions given the improved access provided by the interstates

Cities expanded in the late 1950s and 1960s along the new interstate arteries. Several features mark this expansion. For one thing, it was based on the premise of automobile-based commuting rather than public transportation. a notion that we call automobility. Residential development based on public transportation is by nature denser, because residents must be able to get from home to the pub...c transportation stop. In contrast, interstate-stimulated, automobile-based residential development has tended to be much more dispersed and lower in density. Thus, compared to the compact streetear suburb, the automobile-dependent suburb consumed much more land, often at a rapid page. Moreover, as we discussed in Chapter 5, the distances that increasing y characterized cities in the postwar decades also decentralized shopping centers, business parks, and a variety of other economic functions out of urbancores along with the residential areas.

Circumferential links were constructed between the radial spokes of the interstate system beginning in the 1960s. Most urban areas eventually had complete be tways or loops at some distance from the core. The intersections between the radial and circumferential portions of the interstate system have many economic advantages and have become major nodes of economic activity. Think of a city where you live or have visited. You probably can identify a large cluster of shopping mails, business parks and office buildings, and apartments surrounding one of these intersections. We discuss many of these features of the economic landscapes of esties—sometimes called edge cities—in Chapters 5 and 7. In terms of housing. the continued expansion of the interstate system had two major impacts. One, it provided economic rationate for a greater diversity of housing types farther from the core. Two, it provided a greater diversity of employment opportunities farther from the core, allowing residents to live yet farther from the core of caties

"BLIGHT" AND INNER-CITY HOUSING

We next turn to the fate of inner-city housing in the decades following World War II. Recall that housing construction lagged during the Depression and stalled during the war. The federal loan guarantee programs were in place and reached their full impact during the postwar years as housing construction boomed. At the same time, inner-city neighborhoods were undergoing a different kind of transformation, often involving a buildozer. What happened to these areas dramatically changed the function and structure of many cities during the postwar decades.

Early Post-World War II Redevelopment Pressures

Much of the nation's urban housing stock in the first half of the twentieth century consisted of overcrowded and physically deteriorating neighborhoods in close proximity to the downtown retail core of many cities. This geographic arrangement had been functional for generations of immigrants and in migrants moving to make looking for work. because these areas were close to the industrial areas. of cities and the jobs they provided. These areas grew even more crowded and conditions worsened during World War II because of the general stagnation in the housing market. Of particular concern were the aging and structurally unsound tenements. Community activists pressed for public action to improve conditions. The housing stock in some areas was truly dangerous and could not be readily repaired. Thus, demolition appeared to be the only antidote (recall Hoover and Vernon's last stage of neighborhood evolution)

The problems of an aging bousing stock increasingly considered unsuitable were compounded by postwar suburbanization. Recall that suburbanization predated World War II and was already accompanied, though only to a minor extent, by retail decentralization carly suburban shopping centers were constructed well before he war started.

This presented a problem for the large downtown retailers like Macy's and Gimbers. They foresaw that suburbanization was going to continue and that their preferred clientele would increasingly live in the newly developing suburban areas. As new shopping centers were being built to service the decentralizing population, suburban residents began to feel that traveling into the core for shopping was more and more of a hassle. Retailers saw the blighted neighborhoods close to the retail districts as a problem: they feared that suburban residents would become less. willing to travel through these blaghted areas to shop downtown.

Local political leaders, in concert with local economic leaders-sometimes referred to as loca. growth machines—pushed hard in many areas for federa, aid to resolve the blight problem. Beginning with the Housing Act of 1949, the solution increasingly took the form of bulldozers followed by bricks. and mortar-in other words, demolish older neighborhoods and replace them with new development These efforts would involve complex public-private partnerships in which governments spent money acquiring and clearing blighted properties before making the land available to private developers

Through the 1950s and 1960s and into the 1970s. billions of donars were spent on massive urban redevelopment schemes in the downtown areas of etties across the country. Many of these areas had been residential. In most cases, they were labeled as blighted, turn down, and often replaced with large-scale projects (although some areas razed by bulidozers were never redeveloped and remain barren today). Think of a downtown area you know There probably is a civic center or a university or hospital campus that was constructed or expanded significantly during this period (Figure 8-13).

The Housing Dynamics of Redevelopment

Several problems confronted urban redevelopment efforts. Where were the displaced residents going to live? This problem was intensely compounded in many cities by the fact that many of the residents of the worst neighborhoods were racial minorities who faced limited housing choices because of discrimination. What kind of development was to replace the old overcrowded neighborhoods? Would housing be provided, or would the newly cleared land be used for some other function? How would financing and responsibility be allocated?

The solution was a complex program of initiatives authorized in large part by federal legislation, for example, the Housing Act of 1949. The government condemned older neighborhoods designated as blighted by local officials and obtained property ownership through eminent domain, which empowers the government to obtain ownership of land if it is in the overriding public interest, as long as the government pays fair market value. Once properties were obtained in this manner, they were cleared of existing structures and made available to private developers for new construction.

The blight designation became highly problem. atic. Instead of describing the worst housing that probably could not be renovated, blight became a self-fulfilling prophecy in many greas. Many neighborhoods destroyed during this period were

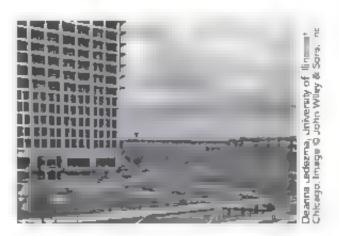


Figure 8.13 The University of Illinois opened its Chicago Circle campus (later renamed the University of Illinois at Chicago) in 1965 after (minigrant and minority) neighborhoods were cleared as port of Chicago's urbanrenewal efforts

noor vet economically

poor yet economically and socially viable, having served for decades as gateways for new immigrants and rural-to-urban migrants. Once designated as "bughted," however, these viable neighborhoods inevitably deteriorated very rapidly

Physical decay proceeded very quickly after a blight designation, in part because of housing market dynamics. Property owners had no financial incentive to maintain properties following a bright designation because ownership was certain to be obtained by the city at some point. The problem was that exerting the power of siminent domain could get bogged down in legal proceedings, and the acquisition of all properties in an area (necessary before construction could start) could be significantly detayed. Property owners wanted to maintain an income flow in the meantime and therefore continued to rem our properties but withheld maintenance. The result was severely substandard housing for the very portions of the population least able to move to other neighborhoods.

Decisions about what to rebuild in the bughted neighborhoods were also heavily shaped by the local growth machines. Seeking to retain the attractiveness of downtown areas for suburban consumers, most cities pursued development that would not be occupied by the poor Downtown hospitals and universities sought and to expand. City governments built downtown convention centers and sports facilities. Freeway engineers sought the agast expensive land possible to build the new interstate system. Private developers sought to build mixed-use, often high-rise, structures that would provide an income stream. These new structures often combined office and retail space with higher-income residential units. Community groups protesting downtown redevelopment claimed that the purpose of the redevelopment essentially was to depopulate the inner city of the poor, especially poor racial minorities.

Displacement and Public Housing

The problem of providing housing for residents displaced by downtown redevelopment was serious. Political leaders who wanted to pursue redevelopment schemes often encountered senous opposition from community residents. Many cities turned to public housing as a partial solution and in the process co-opted what at the time were only nascent efforts to provide publicly financed housing

Many European industrial nations turned to publicly owned housing in response to the suffering of the Depression. The United States resisted the notion of public housing, favoring instead the series of financial incentives discussed earlier to increase home ownership. The heavy behind much of this policy orientation rested on Hoyt's ideas about vacancy chains and filtering. If enough housing was provided for the upwardly mobile on the fringe of the city, natural housing market processes would make ample housing available to the poor

Even so, beginning in 1935 the federal government funded the construction of a hunted number of public housing units in cities around the country through the auspices of local housing authorities. The initial intent of this housing was very different than what you might think today Local housing authorities applied siringent selection criteria and envisioned the housing as temporary shelter for need nuclear families with good prospects of subsequently finding employment. Public housing was envisioned as transitional housing for the deserving poor disadvantaged by the unfortunate economic circumstances surrounding the Depression (Figure 8.14). Most often, this early public housing was reserved for white families only.

As World War II drew to a close, local housing authorities were very aware of the potential problems created by the return of militions of service personnel atto overcrowded housing markets with few vacancies. Federal policies encouraged home ownership and stimulated new house construction. long term strategies dependent on efficient filtering. Local housing authorities womed that the filtering process would not operate quickly enough to address the housing needs of returning veterans and therefore sought to construct new public housing for returning

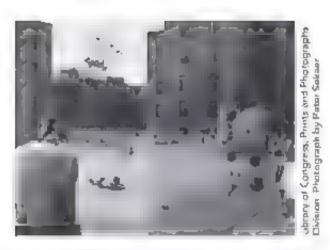


Figure 8.14 The Jane Addams Homes housing project, built in 1938 in Chicago. Librors was typical of early public housing. Buildings were generally small, and tenants were typically white and working poor

veterans. This housing was not stigmatized in the way that it is today, rather, most people thought of it as a well deserved benefit for veterans.

Public housing, despite noble initial goals, was eventually co-opted by downtown redevelopment innatives to provide a political solution to the problem. of displacement, Under pressure from local growth machines (and some community organizers), many local housing authorities began to reconceive public housing. No longer was public housing to be a temporary and transmonal form of housing. Rather, it was to become a place to house the most disadvantaged residents displaced by urban renewal programs. The very laws that authorized many of the redevelopment. schemes (e.g., the Housing Act of 1949, also provided federal funding to local housing authorities to greatly expand the supply of public housing with the intent that it be filled with displaced residents. The social composition of public housing very quickly changed from intact families and returning veterans to the long term poor often the residents of demo. ished neighborhoods who were least able to find their own alternative housing

Not surprisingly, decisions concerning the locations of the newly configured public housing projects.

generated intense positical controversies. On the one hand, providing public housing for residents displaced from blighted neighborhoods became an essential part of the political seiling of downtown redevelopment projects. (Note, however, that the number of units destroyed by redevelopment projects far exceeded the number of units built via public housing. Indeed, the number of units destroyed exceeded the total number of housing units ever constructed in those areas, counting even high-income units.) On the other hand, as it became clear that public housing was going to house the truly poor and racial minorities, communities increasingly resisted siting of projects. Indeed some of the worst urban violence in post-World War II decades centered around the siting of public housing and the racial composition of its residents. White communities frequently gathered to violently resist occupation by black residents, even black mt-tary personnel with intact nuclear families and good jobs. (see Chapter 9).

Eventually, many of the largest and most densely occupied public housing projects came to be located in marginal areas with little perceived economic value—in or adjacent to old abandoned industrial areas or in areas cut off by railroad lines or the newly built interstate system. In some cities, public housing built during this era came to occupy very large tracts of land and became a very visible symbol of poverty. A major example of this process was the Printt Igoc housing development, built in St. Louis in the mid-1950s (Figure 8.15), and heralded upon its completion as a triumph of modern city planning and social engineering

High-density, high-rise projects were sold to the public not as the warehouses of the destructe that they became but as a way to improve the lot of the unfortunate people who formerly lived in dirty, crowded, blighted neighborhoods. Unfortunately, the presumed triumph of modern architecture over the social ilis of industrial capitalism ultimately failed. Very quickly after construction, many of these high-rise projects became plagued by high crime rates. For example, a short two decades after their





Figure 8.15 Acria, view of the Prutt Igoe Homes, completed in 1955. The architect for the project, Mineru Yamasaki, won an award from the American Institute of Architects. The project represents the commitment to modernist design and massive scale

initial construction, the massive Pruit Igoe homes of St. Louis were demokshed in 1972 (Figure 8.16). The American Institute of Architects had recognized the architect, Minoru Yamasaki, for the design of the project. Even so, their modernist design made it difficult for housing authorities, police officers, and residents to supervise activities in the buildings. As a result, crime rates were unacceptably high and social life was difficult to sustain. Some residents actually lobbied to have the projects destroyed. Rather than serving as a testament to the power of modernist design, public housing came to represent its failure. Today the federal government is spending billions of dollars to tear down and reconstruct public housing.

Neighborhood Revitalization: GENTRUFICATION

Despite their apparent blight, many inner-city neighborhoods have enjoyed a remarkable turnaround in recent years. This trend it not unique to the last few decades. For example, Brian Berry (1985).



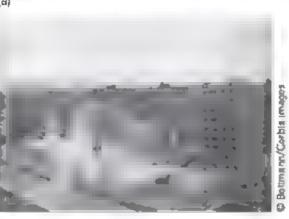


Figure 8.16 The Printt Igoe complex was heralded at a dedication coromany in 1956 as a way up and out of St. Louis' slum dwellings (a). The complex lasted less than two decades before the federal government declared at a failure and demolished the buildings beginning in 1972. (b). The site has been vacant since

described "islands of renewal in a sea of decay" in the mid-1970s. In fact, selective renewal in older run-down neighborhoods was occurring during the 1960s in some North American cities. Gentrification describes the trend in some neighborhoods for predominantly white, middle-class residents to purchase and restore or revitalize houses in poor minority neighborhoods.

Revitalizing housing entials ripping out subdivided rental units and restoring the structure to a single-family residence. Owner-occupiers invest significant sweat equity into the property, doing much of the renovation work themselves. Many gentrifying pioneers initially had difficulty in securing financing. Once the neighborhood had accumulated enough renovated properties, however, it would undergo a rapid transition from poor minority renters to white, middle-class owner-occupiers, Housing values would skyrocket, reflecting the considerable amenates that in town neighborhoods provide to certam segments of the population.

David Loy (1996) and others favored explanations for gentrification that focus on the diversification of housing demand, especially the emergence of a new consumer-oriented, affluent middle and professional class. Homebuyers are now more socially diverse than in the immediate post-World War II decades. There are many more childless households, as young people choose to not have or at least to postpone childbearing. Also, many more singles are maintaining independent households, as are many more gays and lesbians. These are the populations that tend to proneer gentrification. They are attracted to neighborhoods with older houses possessing interesting architecture and convenient access to urban amonities.

Alternative explanations for gentrification focus on the geographic nature of land values in urbanneighborhoods, arguing that decades of dismyest ment in the inner neighborhoods of cities creates new opportunities for speculative investment. According to Neil Smith (1996), urban land occupied by the poor is undervalued by land markets, creating a rent gap between the current value of the land and the higher potential value of the land under a new or different (gentrified) use. The rent gap represents profit potential that can be exploited via gentrification for investors willing to risk their capital, especially in periods when real estate investment more generally makes economic sense. Smith concluded that the economic motivations were more important in explaining gentrification than cultural or demand-centered explanations.

Gestrification stimulates very contrary responses. Its supporters appeared the return of middle-income (white) populations to the central city after decades of suburbanization. City governments argue that tax. rolls increase, and demands on costly city services. decrease, as higher-income households choose to live in the city. Problems associated with concentrated arban poverty (see Chapter 9 for a more detailed discussion) are eliminated, or at least moved elsewhere. Also, gentrification is often accompanied by the return of some of the retail businesses lost to the suburbs in orevious decades.

Critics, however, contend that gentrification is another example of the exploitation of the poor. Federal housing policy and discriminatory housing institutions forced the poor to occupy inner-city neighborhoods with old and deteriorating housing stock at a time when economic activity was rapidly decentralizing. At least the old neighborhoods were accessible to public transportation and proximate to what remained of inner-city employment opportunities. Now, when the attractions of in fown hving are re-emerging, the poor are again being displaced from their neighborhoods. This time, they are being duplaced into housing stock with little advantage—the small postwar suburban housing. maccessible to public transportation and far from most urban services and employment opportunities. These criticisms thus focus on the power relations. that lead to the appropriation of neighborhoods from the disadvantaged residents.

WRAPPING UP

In 1999 Robert Fishman surveyed a group of urban professionals who were members of the Society for American City and Regional Planning History, an interdisciplinary professional organization composed. of urban historians, social scientists, planning faculty, and working planners and architects. He asked them to rank the 10 most important influences shaping the past 50 years, and the future, of the American metropolis. The results (2000) are as follows.

- 1 The 1956 Interstate Highway Act and the dominance of the automobile
- Federal Housing Administration mortgage financing and subdivision regulation
- 3. De ndustrialization of central cities
- 4 Urban renewal: downtown redevelopment and public housing projects (1949 Housing Act)
- Levittown (the mass-produced suburban tract house).
- Racial segregation and job discrimination in cities and suburbs

- 7 Enclosed shopping mails
- 8. Sunbest-style spraw.
- 9. Air conditioning
- Urban riots of the 1960s.

Note that four out of the top ten influences relate to housing and are discussed in this chapter. As Fishman notes, many of these influences reflect the direct and indirect, intended and unintended consequences of government involvement, in particular the 1956 Highway Act, FHA loan guarantee programs, and the 1949 Housing Act. The urban geography of housing is a fundamental feature of modern metropolitan areas.

SEGREGATION, RACE, AND URBAN POVERTY

neighborhoods choose people rather than the common idea that people choose neighborhoods.

Sampson, 2012, p. 327

A social experiment is, in the end, two things joined a program plus the project of rigorously and thoughtfully evaluating it

-- BRIGGS, POPKIN AND GOFRING, 20-0, F. VI.

This chapter addresses urban poverty and the people who experience it. Urban poverty remains an enduring problem, even after the robust economic growth of the 1990s. It has real and intense effects on the lives of the people that experience it. Moreover, poverty has become part of the way we imagine the city. Ask people what comes to mind when they think of the city, and they andoubtedly will mention "ghettos," "barnos," "saums," or other manifestations of poverty as part of the urban landscape.

Even worse, popular images of the urban poor too often carry a nonwhite face. If you live in a city or receive television broadcasts from a large city, recal, the nature of stories about the urban poor. Very often stories are about people in dire straits-crime victims, abandoned children, and so forth. Very often the people depicted are ethnic and racial minorities. Many aspects of these depictions greatly concern us-To begin with, most of the poor living in U.S. cities. are, in fact, white. The problem goes deeper than this, however. As anyone, including the authors of this textbook, the instructors of the classes you take. and you, talk about ethnic and/or racial identity in association with economic disadvantage, there is the potent al to offend or even to stigmatize groups of people, even when we are trying not to.

A large measure of this problem centers on the complex nature of identity. The terms ethnicity and race are fluid and imprecise concepts that take on fixed meanings in part because governments and institutions use categories that only imperfectly reflect the complex realities in which people live-Chapter 10 discusses the notion of ethnicity; we discuss the concept of race in this chapter. To highlight the problematic nature of these notions, many authors have as a matter of course started enclosing the words in quotation marks. We do not follow this practice, though we do agree that the concepts are highly problematic in ways that we discuss. We stress in this chapter that talking about segregation and poverty using these vague and imprecise categories of identity is loaded with moral weight, especially regarding minority groups that ended up living in North America against their choice

We start here with the tricky and problematic categories of race. This concept emerged centaries ago as European nations encountered diverse human populations during periods of exploration, nation-building, and colonial exploitation. Three main human races were identified. Caucasoid, Mongoloid, and Negroid—based on the global geography of where populations were "discovered"

Genetic research relates any meaningful biological basis to human races, yet the idea persists. Many people still talk as if race identifies inherent characteristics that explain behavior-and economic disadvantage. We, the authors, reject such notions. When we talk about race, we recognize that all differences between groups are created by society in specific historical and geographical contexts. Still, to understand the social landscapes of cities, we are forced to confront forms of oppression based on wrong-headed notions of racial and ethnic identity Cities are the way we observe them today because people, institutions, markets, and governments acted and str. act) on the basis of racial ideas. These ideas are wrong but have had, and continue to have, a very important impact on the nature of cities that any student of cities needs to understand.

When referring to race in the context of North American cities, we refer to populations at least partially descended from Africans involuntarily brought to North America on slave ships. Consider the variety of names that have been used to refer to this group: Colored, Negro, black, Afro American, African American. There is today no universally accepted term. We generally use black and African American interchangeably, although without implying any biological basis to the differences that we describe A better way to think about the complex issues of race and disadvantage in urban areas is conveyed by the concept of racialization, which describes the process whereby the majority in society systematically imposes a racial identity upon a minority group. with less social, economic, and political power

CURRENT PATTERNS OF RACIAL RESIDENTIAL SEGREGATION

Most African Americans still lived in the rural South at the conclusion of the Civil War when U.S. slavery was finally abolished. This pattern changed

dramatically in the twentieth century when rural blacks migrated to northern cities in large numbers. In the process of this major demographic shift from the rural South to the urban North, African Americans ended up in urban spaces unlike those experienced by any other group. We begin this section by exploring the degree of segregation that currently marks U.S. cities, including intense and multifaceted forms of residential segregation that concern many observers. We then provide a brief historical narrative of how African Americans came to live in these circumstances, and consider how these conditions may be related to poverty

Census 2010 Figures

In Chapter 10 we discuss the role of immigration in shaping the social landscapes of U.S. cities, with a particular focus on the residential segregation of immigrant groups in particular neighborhoods. This segregation has taken multiple forms in different cities and historical eras. Although people have worried over the years that intimigrant segregation analy hamper social and cultural assimilation, many people find ethnic neighborhoods enjoyable places to visit and recognize that they provide thany economic, social, and cultural benefits to immigrants. This chapter discusses racial forms of residential segregation that have had much more adverse impacts on urban life.

Black/White Patterns U.S. Census data consistently reveal some remarkable things about segregation by race. These data show that African Americans experience very high levels of segregation—higher than any unmigrant group in any U.S. city at any point in history. Before we can understand this, however, we need to understand something about the way we measure levels of segregation—a topic that we address in Box 9.1. Both the index of dissimilarity and the isolation index, our most commonly used indices, are quantitative measures of segregation that characterize the level of segregation across an entire metropolitan area. Values range from 0 to 100, with 100 indicating the maximum possible level of segregation.

BOX 9.1 Types and Measures of Segregation

To think effectively about the issues that concern us in this. chapter, we need to understand some basic ideas about residential segregation. Segregation is a fundamental concernof arban geographers, and we touch on this issue in all of the chapters in this section. Here, we want to focus particularly on the long-standing and large academic interest in the segregation of African Americans. To do this, we need to discuss some of the ways that scholars have measured residenhal segregation. At one level it is easy to identify segregated neighborhoods. Recall a city that you live in or have visited. Most large cities have areas commonly identified with African Americans, often called ghettos (though recalfrom Chapter 2 that the term ghetto originally described areas of Medieval European oftes into which lews were segregated). As scholars and policy makers have struggled. with issues of poverty and race, however, they have pordered questions such as this one: how segregated is this city, relative to the past and to other cities? Many ways of measuring segregation have been developed to address. these questions. Today, our discussions of segregation are very much anfluenced by common quantitative measures of regregation. We discuss the two most communical measures. index of dissimilarity and indices of exposure and iso ation

EVENNESS AND THE BASIC DISTRIBUTION OF GROUPS

By far the most common way of shinking about segreganon is tied to the most common way of measuring it. The basic notion is to compare the distribution of a group or groups across neighborhoods within a city to some ideal and then to measure quant tatively how different the actual austribution is from the ideal. The benchmark distribution against which segregation is most often measured is evenness. Imagine for example that a group constitutes 10 percent of a city's population. An "even" distribution of that group across neighborhoods would result in that group's constituting 10 percent of each neighborhood's population, the degree to which that group's distribution differs, on average, from that ideal constitutes one way of measuring segregation in that context. Put another way, given the current distribution of a group across neighborhoods, what would be required to eliminate segregation (resulting in an "even" distribution of that group across neighborhoods)? The most common measure of the evenness interpretation of segregation is often called the index of dissimilarity (D), and it is computed easily from standard Census data. The formula is:

$$D = \frac{1}{2} \times \sum_{r=1}^{3} \frac{1}{\chi} = \frac{v}{\gamma}$$

The subscript j in the formula refers to the neighborhoods—in most cases ceases tracts or block groups, although sometimes other types of areas are used (e.g., voting districts, or wards, are often used when studying cities historically before ceases tracts were created. The vertical burs indicate that the absolute value of the difference is to be taken, the Greek character sigma (Σ) cells us to add up everything that follows. The symbols x_j and y_j refer to the numbers of people in group X and group Y_j , respectively that live in ceases tract j. The symbols X_j and Y_j refer to the total numbers of people in group X_j and group Y_j , respectively, that live in the city as a whose

For each group and each census tract, we divide the number living in the irset by the total living in the city. When we do this division for each census tract, we have he proportional distribution of that group across census tracts. We then add up the absolute value of the difference between the two proportional distributions, and divide by two. Look at Table B9 I for an easily worked example The index for the city is one-half of the sum of the absolute differences. 1.48/2 = 74, or as often presented, mail: plied by 100 to get 74. The value is also interpreted as the percentage of the minunty group that would have to relocate to different neighborhoods in order to achieve an even distribution. In this example 74 percent of black residents would have to move in order to achieve an even distribution. Part B of Table B9 I shows one possible pottern when members of group X relocate to subareas where they were formerly underrepresented. Note that in Part B group X now constitutes one-third of each subarea's population, as it does in the city as a whole

BOX 9.1 (Continued)

Table B9.1 Calculation of the Index of Diss millarity (D) for a Hypothetical City

	Subarea	Population	Proportio	nal Distribution	Absolute Difference
Subarea		ų	,		· ·
Part A					
1	14	٠0	0.44	0.02	6.42
2		40	0.40	0.08	0.32
3	15	140	0,06	0.28	0.12
4	25	150	0.10	0.30	0.10
5	0	160	0.00	0.32	0.32
Sam	250	500	1.00	1.00	1.48
Part B					
1	5	-0	0.02	0.02	0.06
3	26	40	80.0	80.0	0.80
4	70	140	0.28	0.28	0.00
4	75	150	0.30	0.30	0.00
5	80	160	0,32	0.32	0.00
Sam	250	500	1.00	1.00	0.00

Sonn e. Authors

The near of dear charge sanger from a normal new value of 3, representing perfect evenness, to 100, representing absorute separation of the groups. Traditionally, values between 0 and 30 are thought of as low, values between 30 and 70 are thought of as moderate, and values over 70 are thought of as bigh. Note, however that the size and shape of geographic subareas affect the values of this index. Smaller areas, for example (relevant, perhaps, when we use block groups instead of census tracts) will generate higher values of the index even if the underlying residential distribution is dentical.

EXPOSURE AND ISOLATION

The index of dissimilarity has been a very useful and durable measure of segregation. Even so, there are problems with the measure. Our ability to use it to compare places over time or across space is hampered by its sensitivity to the spatial characteristics of subareas and their location relative to one another. Even more troubling is the conceptual interpretation of the index—as a measure of evenness, the index compares actual proportional

distribution against the ideal of an "even" distribution. Socially, however, we are often more concerned with what neighborhood residents neight expensive within their neighborhoods. The second most common segregation measure captures though imperfectly) notions of isolation and exposure. This P *, or P-star, index popularized by Stanley Lieberson (1981) is actually a related family of mores that take the form

$$p^{\epsilon} = \sum_{i} \left(\frac{v}{X}\right) \times \left(\frac{v}{T}\right)$$

The symbols are the same as in the formula for the index of dissimilarity (T = the total population of each tract). The exposure index attempts to measure the chance of encountening a person of another group within one's neighborhood, rather than measuring the "average" difference between the distributions of two groups across neighborhoods. There will be a very low probability that group X individuals will encounter a group Y member in their neighborhood if most live in areas where few group Y members live. Another way to think about it is in terms of the average group composition of the neighborhood of

is member of group X, on average. Specifically for the formula depicted here, what is the proportion of group Y members fiving in the neighborhood of the average member of group X^y If neighborhoods where group X members disproportionately live are characterized by large proportions of group Y members, the index will have a large value. Conversely, if they are characterized by large proportions of their own group, the index will have a small value. The index ranges from 0 to 1 (commonly multiplied by 100), with large values representing grouper "residential exposure" of group X to group Y. A closely related and more commonly used variant of this index

is the isolation index

$$P' = \sum_{i}^{r} \binom{x_i}{x_i} \times \binom{x_i}{T}$$

The difference is that the iso ation index measures the average neighborhood proportion of group X members for other members of group X. In other words, what is the typical neighborhood percentage black for black residents of a city? Large values indicate that group X members live in neighborhoods, on average, dominated by their own group: that is, they are residentially isolated from other groups

Table 9.1 shows that African Americans remain highly segregated several decades after the civilinghts movement. We interpret the index of dissimularity as the percent of the minority population that would have to exchange residences with members of the majority in order to achieve an even distribution between the two groups. In all of the Metropolitan

Statistical Areas (MSAs) with the largest black populations, more than half of blacks would have to move to eliminate segregation. The isolation index tells us, on average, the percent of your own group living in your neighborhood. In seven out of the 10 MSAs asted in Table 9.1, blacks, on average, live in neighborhoods that are well over 50 percent

Table 9.1 Residential Segregation in Metropolitan Areas with Largest Black Population

			1010		1000	n	. 999)
	Black Population	% of Total	Black Whate Dissimilarity	Black Isotanan	Black White Dissimilarity	Bluck Isotation	Black Whate Dissandarity	Black Isonahon
New York, NY	3.178-863	16.8	76.9	51.3	79.5	56.8	80.9	59.6
Atlania GA	733,146	324	58 +	58.1	619	61.2	66 3	63.2
Chicago, IL	1,669 774	17.7	75.2	64.8	80.4	72.1	B4 4	77.1
Washington, D.C.	1 477 126	26.5	61.0	54.8	63.0	59 0	65.5	61.8
Philadelphia, PA	1.264 163	71.7	67.0	55.8	70.3	60.5	75.7	65.6
Miami, FL	1 137,108	20.4	64.0	51.1	68.5	55.6	74.0	58.8
Houston, TX	1,029,880	17.3	60.6	37.2	65 1	45.1	65.5	51.8
Detroit, MI	1.012,098	23.6	74.0	70.0	84 9	79.2	87.6	0.18
3a las Fort Worth, TR	982,634	15.4	55.5	35.0	54	40.0	62.8	48.6
Los Angeles-Long								
Beach, CA	932,431	7.3	65,2	27.6	68.1	32.7	72.8	40.5
Average			63.8	50.6	70.3	56.2	73.5	60.8
Average, large MSAs								
populación > 1 milion)			57	38.3	61 .	42.5	64.8	469

Source: Segregation indices calculated From the US20 to Project. Spatial Structures in the Social Sciences. Brown University © John Logar. Spatial Structures in the Social Sciences, Brown University.

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black, demonstrating a high level of racial segregation. These numbers become even more dramatic when we compare them with the percent black in each MSA as a whole. For example, blacks in Chicago live in neighborhoods that are on average 65 percent black. This is three times the percent black for the MSA as a whole (18). Even in Los Angeles, which its only 7 percent black, blacks live in neighborhoods that are on average 28 percent black.

Hispanics and Asians The categories Hispanic and Asian are not terribly meaningful. Hispanics come from a wide range of countries, and because the race and ethnicity questions on census forms are asked separately, Hispanics can be any race, Asians come from an even wider range of countries, and the category includes very different populations, from descendants of Chinese immigrants who arrived in the late mneteenth century to Laotian immigrants who have lived in the United States for only a few

years. St.II, these categories are frequently used, and they are the best ones available at this time.

Tables 9.2 and 9.3 show segregation index values computed for Hispanics and Asians, respectively Overall, Hispanics are more segregated than Asians, although neither group is as severely segregated as bracks. This is true for both the particular metropolitan areas in which each group is most numerous and for all metropolitan areas. Los Angeles, New York, Chicago, and Dallas provide interesting points of comparison because they appear on each group's top 10 list New York, Chicago, and Dallas follow the general trend, with segregation highest for African Americans to lowed by Hispanies and Asians, Los Angeles deviates from the pattern. According to the ndex of dissimilarity, Hispanic segregation is on parwith African American segregation, And, according to the isolation index, Hispanics are more segregated than African Americans-a result that stems in large part from the fact that Hispanies now constitute 44 percent of the city's population.

Table 9.2 Residential Segregation in Metropolitan Areas with Largest Hispanic Population

			2010		2000		1990	
	Hispanic Population	_	Hispanic White Dissimitarity	Hispanic Isolation	Hispanic White Dissimilarity		Hispanic White Dissimilarity	Black Isolation
Los Angeles-Long								
Beach, CA	5,700,862	44.4	62.7	63.7	62.5	615	F-0.6	56.1
New York, NY	4 327,560	22.9	62.0	43.7	65.6	42.7	66.2	40.5
M an i. I'L	2.312.929	4.6	574	62.7	59.0	59.3	63.6	58.9
Houston,TX	2.099,4.2	35.3	52.5	50.4	53.4	47.0	47.8	38.6
R veoside San Bernardino, CA	996, 40.1	47 3	47 +	57	42.5	49.5	35 B	377
Chicago, II	957 080	20.7	36.1	46.9	50.7	46.2	6.4	41.0
Dr. as Fort Worth.								
TX	1,752,166	27.5	50 3	44.5	52 3	42.5	48.8	31.5
Phoenix AZ	235 7 8	29.5	49.1	47.5	52.2	45.6	48.6	35.5
San Antonio, TX	1,156,148	54 [46.1	65.2	49.7	6+7	52.1	54.1
San Diego, CA	99.,348	32.0	49.6	479	50.6	43.6	45.3	35 1
Average			52.8	52.9	54.8	50.2	53.0	43.9
Average, large MSAs (population								
> mr linn			45.9	7.7 3	46.4	22.3	40.5	,75

Some a Segrepa for interest calculated from the USP 410 Project. Sputial Structures in the Social Sciences. Brown University of a the Logarian Structures in the Social Sciences. Brown University

Table 9.3 Residential Segregation in Metropolitaa Areas with Largest Asian Population

			2010		200	ø	1990	
	Asam Population		Asian-White Dissimilarity		Asian White Dissimilarity	Asian Isia daon	Asian-White Dissimilarin	Asian Isottatoi
Los Angeles-Long								
Beach, CA	2,051,746	16.0	45.7	31.8	46.0	27.7	43.5	20.6
New York, NY	2,000,992	10.6	50.4	27.6	50.1	22.2	47.4	16.0
San Francisco, CA	1 122,631	259	44.3	39.0	44.9	34.3	45 8	28.6
San Jose, CA	612,502	33.3	43.0	45.4	42 D	37.6	38.8	24.1
Chicago, IL	586,214	6.7	42.7	16 3	45 ()	14.0	46.5	0.9
Washington, D.C.	581,304	10.4	36.9	18.4	37.2	13.6	34.5	8.9
Scattle, WA	490.579	14.3	33 9	20.7	34.5	17.4	36.8	14.0
Houston, TX	4,7,415	7.0	48.7	17.7	50)	13.9	48.0	9.1
San Diego, CA	197 55	2.8	44.3	23.6	46.7	1 6	4H	7.1
Daslas Fort Worth, TX	377,958	5.9	44.5	15.2	43.9	9.8	41.8	6.0
Average			43.4	25.6	44 0	21.2	43.1	15.5
Average, rarge MSAs								
(population > I million)			39 4	12.1	39.7	9.3	39 B	6.6

Source Segregation indice carcarated from the USPL O'Dropec. Spatial Structures to the Social Sciences. Introduct Structures of the Social Sciences, Brown University.

Recent Change

Although the indices tell us hat African Americans are highly segregated in U.S. metropolitan areas, especially in those areas where they live in the greatest numbers, they also indicate some improvement. Segregation decreased in the 1990s and the 3000s for each of the MSAs depicted in Table 9.1. Segregation decreased in all regions of the country and in cities.

of all sizes on average segregation dropped by about four noints in each accorde. A few either saw increases in segregation, but the size of the black population in these cities is generally small. Viewed over the course of the twentieth century (Figure 9.1), we see that African American segregation rose through the first two-thirds of the coursely to react its highest levels in the 1960s. Following the passage of andmark

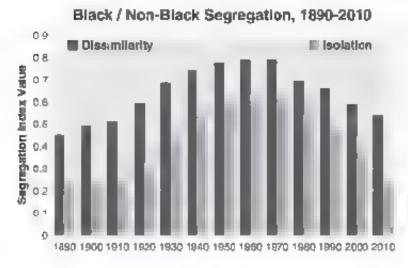


Figure 9.1 Trend in residencial segregation as measured by the mack dissentantly and the solution index 1890-20 ft Source Authors, based on data estimated from Glasser, Edward and Jacob Vigdor, 2012

antidiscrimination laws in the 1960s and early 1970s (see Chapter 8), accompanied later by the economic boom of the 1990s, segregation levels declined.

In contrast to the downward trend in African American segregation over the last several decades, segregation for Hispanics increased notably during the 1990s and leveled off during the 2000s (Table 9.2). Although Hispanic segregation is stal not as high as it is for African Americans, these increases are nonetheless very troubling. The increase in the isolation index values for Hispanics. stems in part from their rapid increase in numbers due to immigration (note that there are more Hispanies in the top 10 Hispanie MSAs than there are African Americans in the top .0 African American MSAs). Census Bureau data confirms that H.spanics. are now more numerous than African Americans, making Hispanics the largest minority group. Asian segregation (Table 9.3) has remained relatively constant over the last two decades, except for the isolation indices, which increased because Asians increased as a share of the total population.

Economists Edward Glaeser and Jacob Vigdor (2012) used Figure 9.1 to argue that we have pursed "The End of the Segregated Century" They argue that black segregation is lower in 2010 than at any point since 1910—and that the declines signal the effect of less-restricted residential mobility for blacks due to fair housing laws and increased suburbanization, as well as the increasing demographic diversity of population as a whole John Logan (2013) disagrees and notes several disappointing facts about segregation today

The decline in black-white segregation is painfully slow, and at the current rate, it will be another two decades before it reaches even the level of Hispanic segregation today. There remains a Ghetto Belt of major metropolitan regions where segregation is still quite intense, and the current average level of segregation still represents a sharp separation by race. Whites rarely enter predominantly minority neighborhoods, but they continue to leave mixed greas, suggesting that there may be a limit to progress toward the multi-ethnic metropolis. And finally, even the most affluent black and

Hispanic households still live in neighborhoods with fewer community resources than do much less affluent whites. We are far from the point of assessing how the end of segregation might affect other dimensions of racial inequality. (p. 166)

Dimensions of Segregation and Hypersegregation

Our discussion so far has explored two ways of thinking about and measuring segregation, reflected in the index of dissimilarity and the isolation index. Douglas Massey and Nancy Denton (1988) proposed a more suphisticated approach that recognizes five dimensions of segregation that overlap yet remain distinct.

- Everness describes the similarity in the distribution of groups across neighborhoods (measured by the index of dissimilarity)
- Exposure/isolation captures the typical composition of neighborhoods where group members live (measured by the isolation index).
- 3 Centralization describes the degree to which group members live close to the cenier of the city, relative to other groups
- 4 Clustering is the degree to which group members live in neighborhoods that are close together within the city (Note that the other measures do not distinguish between segregated neighborhoods located next to each other and segregated neighborhoods that are located on opposite sides of the city.)
- 5 Concentration describes the extent to which a group lives in a restricted amount of arban space: that is, the extent to which the group lives in high-density settings.

Massey and Denton argue that a group experiences hypersegregation when it faces multiple forms of segregation simultaneously. In other words, a group is hypersegregated when it is spatially uneven, isolated, concentrated, clustered, and centralized at the same time. Hypersegregation appears to compound the negative impacts of segregation.

Massey and Denton (1989, 1993) found in an empirical examination of 1980 U.S. Census data that only African Americans were highly segregated on multiple dimensions. They defined a group as hyper segregated when it had high segregation on at least four out of five indices. Table 9.4 indicates the sixteen

Table 9.4 Hypersegregated Metropolitan Areas, 1980–2000

Metropolitan Area	1980	1990	2000
A harry GA		×	x
Atlanta, GA	x		×
Валитоте. МД	X	X	X
Baton Rouge, LA		X	X
Beaumont Port			
Arthur TX		X.	3.
Benton Harbor, M1		X	
Birmingham, Al.		X	X
Buffaio-Niagra			
Falls NY	X	X	- A
Chicago, IL	X	X	A.
Cincinnati, OH		X	
Cleveland, OR	X	X	X
Dayton-Springfield, OH			X
Da Jas-Fort Worth, TX	X		
Detroit, MT	X	X	X
Flint, MI		X	X
Gary IN	X	X	X
indianapolis, IN	Х	X	
Kansas City, KS	X	X	
Los Angeles-Long			
Beach, CA	X	X	- A
Marti FL		X	
Milwaakee, WI	λ	X	X
Mobile, Al.			X
Monroe LA		X	X
New Orleans, LA		X	
New York, NY	x	×	×
Newark NJ	Х	X	X
Oakland, CA		X	
Phuadelphia. PA	X	λ	X.
Sagmaw-Bay			
City MI		X	36
Savannah, GA		X	
St. Louis, MO	X	X	$-\lambda$
Trenton NJ		X	
Washington, D C		λ	X

Source: Massey, D. S. and N. A. Denton, 1989, 1993, Demon, 994, Wilkes, R. and J. Iceland, 2009

Note. There are some differences in methodology and sample of candidate metropolitan areas between the studies that eximine hypersegregation. We used the most conservative and consistent numbers that we could obtain in order to create this table.

metropolitan areas hypersegregated in 1980, which were "among the most important in the country, containing six of the ten largest metropolitan areas in the United States, Together they house 35 percent of the nation's black population, and 41 percent of all blacks living in urban areas" (Massey and Denton, 1993 p. 77)

1990 Census data (Table 9.4) revealed that 14 of the 16 areas remained hypersegregated in 1990 (Denton, 1994). Several additional metropo, tan areas became hypersegregated by 1990. By 2000, black white seg regation had declined in many metropolitan areas, and the number of hypersegregated areas also declined (Table 9.4) Notably. Witkes and Iceland (2004) report that Hispanies were hypersegregated in Los Angeles and New York in 2000—the first time that any group other than blacks have been found to be extremely and extensively segregated from whites.

What Causes Segregation?

Social scientists often specify three forces or factors that cause residential segregation, economics, discrimination, and preferences. Economic explanations suggest that what appears to be racial segregation simply results from the fact that minorities on average earn less income and possess less wealth than whites. In other words, they simply can't afford to live in the same neighborhoods. Higher-income neighborhoods and up predominantly white as a natural and improblematic outcome of the ways that housing markets work. Empirical research does not support this suggestion. In fact, it suggests just the opposite, that racial segregation occurs at all income and wealth levels.

Discrimination explanations point to institutionalized differential treatment by real estate agents, lenders, appraisers, and other actors (see Chapter 8 for a detailed discussion of discrimination). According to this perspective, discrimination remains central to the maintenance of segregation. Critics of this theory point to the successes of the civil rights movement and the empirical decreases in segregation levels indicated by the decentral censuses. As documented in Chapter 8, however, discrimination in the housing market has not ended The third force—preferences—has received the most recent attent on. There are two versions of this argument, which have very different implications. Proponents of the first version maintain that segregation results from voluntary self-separation practiced by minorities. Looking at immigrant reighborhoods (today and in the past), these observers suggest that segregation provides benefits—cultural reinforcement, job contacts, and so forth. They conclude that minorities are segregated because they want to live close to other members of their group.

Although there is some support for the notion that immigrant groups at least partially choose to live in immigrant neighborhoods, there are some important distinctions between immigrant groups and African Americans. Immigrant neighborhoods are not now, and never have been, as segregated as African American neighborhoods have been through most of the twentieth century and remain today. Immigrants of a single group almost never constitute the vast majority of a single neighborhood. They may constitute the majority of a neighborhood, yet undoubtedly there will be members of other groups also fiving in those neighborhoods.

More importantly, when we look at the best available evidence on the residential preferences of African Americans, we see Inde evidence to support the argument that blacks want to live in segregated neighborhoods. The Multi-City Study of Urban Inequality (MCSUI), funded by the Ford Foundation and the Russell Sage Foundation, used an impovative methodology to investigate the issue They interviewed thousands of people in Los Angeles, Boston, Detroit, and Atlanta, asking questions about what these people wanted in terms of the racial composition of their neighborhoods. Residents were asked to rank in order of preference a series of "show cards" that depicted various combinations of racial composition. This research shows very clearly that blacks "prefer" neighborhoods that are around 50 percent white and 50 percent black, Completely segregated neighborhoods clearly are not the ideal.

The MCSUI research provides strong support for a second way of viewing the issue of preferences, namely, that the preferences of whites matter more than the preferences of blacks. Whereas black respondents indicated that integrated neighborhoods were most desirable, white respondents indicated that anything more than token minority presence was problematic. White respondents thus are more likely to move out of neighborhoods that undergo integration and to avoid moving into neighborhoods where mmonties constitute a noticeable presence. These findings are consistent with other research from the 1970s (Schelling 1971) that suggested that white residents react to a tipping point. When racial composition goes beyond a certain threshold (and there is some evidence that the threshold has moved slightly higher over the last four decades), the neighborhood will meritably "tip." That is, the neighborhood will turn completely over from white to black or Hispanic as whites leave the neighborhood very quickly in a process known as white flight. Viewed from this perspective, preferences are not such a benign force

Although the debate over the causes of segregation has been intense, it still leaves no much unanswered. The level of African American segregation remains too high and had reached extreme levels by the 1960s and 1970s. How did we get there? Are the forces that created the ghetios still in force? Or are other factors at play today, maintaining levels of segregation that were created in earlier decades by different forces? The next section lays out the complex history of segregation in the United States, an account of which is necessary to make wense of the contemporary patterns.

RACE AND THE NORTH AMERICAN GHETTO

Only small numbers of African Americans lived in cities during the late mineteenth century. Levels of segregation were unremarkable. Urban African American communities in many ways resembled communities of European immigrants arriving in large numbers at that time. Indeed, the few African Americans who were able to achieve some degree of middle-class standing often lived an predominantly white neighborhoods.

The "First" North American Ghetto

The first major migration stream of African Americans to northern cities, called the Great Migration, occurred during and just after World War I between 19.5 and 1920. It was fueled by the devastation of southern agriculture at the hands of the boll weevil and by severe wartime industrial labor shortages in northern cities. Northern industrial capitalists had previously used southern black labor in small numbers to break the strikes of the increasingly influential labor movement during the years prior to the outbreak of World War I. They turned again to southern black labor when faced with the need to increase war production at the same time that European immigration was suddenly curtailed by the conflict

As a result of the Great Migration, the number and percentage of blacks in many northern cities increased dramatically. For example, the black population of Chicago grew from about 14,000 in 1890 in more than 100,000 in 1920 (Table 9.5). The sudden increase in the number of blacks in northern cities squeezed an already limited housing market. Very few new units were made available during the war years. These pressures on local tropang markets circated wartime crises in many cities. The response of cities to the suddenly larger African American populations ufter World War I, however, resulted in the first African American ghettos.

Dual Housing Markets, the "Color Line," and Ghettos Ghettos are not "natural" outcomes of acceptable social and economic processes. Rather, people—individuals, institutions, and governments create and maintain ghettos. This becomes clear when we examine the emergence of the first racial ghelios. Fear and racism increasingly characterized northern whites' response to industrialization and large scale labor migrations (including the Great Migration). There were pronounced increases in sentiments and expressions of white racism against blacks, Jews, and other minority groups during the early decades of the twentieth century. African American migrants to northern cities, though better educated and more skilled than many nonmigrants, were perceived to be culturally backwards, ignorant, and dangerous, both by white society and by the established black edite.

Whites in northern cities acted out their fears and host lities by spatially isolating blacks into distinct ghettos. (African Americans also ended up residentially segregated in southern cities, though to a lesser extent. To understand the creation of the early twentieth-century racial ghetto, we need to understand the tools that whitea used to inseribe the culor line on the residential landscape of the city.

Whites used a combination of informal and institutional efforts intended to minimize social and economic contact with African Americans. They

Table 9.5 Growth of Chicago's Black Population, 1850-1930

				% Increase		
l'ear	Total Population	Black Population	% Block	Total	Black	
1850	29,963	323	1.1			
1860	109,260	955	0.9	265	196	
1870	298,977	3,691	1.2	174	286	
1880	503,185	6,480	3.1	68	75	
1890	1.099,850	14,271	1.3	119	120	
1900	1.698,575	30,150	1.9	54	111	
1910	2,185,283	44,103	2,0	29	46	
1920	2 701 705	109.458	4.1	24	148	
1930	3 376,438	233,903	69	25	114	

Source Philoot, T.L., 199

succeeded in lamiting blacks' housing choices to predominantly black neighborhoods. Blacks living in predominantly white neighborhoods prior to the World War I were sometimes driven out, and the numerous in-migrants from the South were forced to scale in the consolidating ghotios. "Black" greas of town before the war, which in fact were only about one-quarter black, became much more exclusively black after the war.

African Americans increasingly faced personal violence and hostility. When a black family lived or moved mig an area that white residents wished to make or keep all white, angry crowds would gather to Jinow stones, start fires, and even firebomb black residences in the middle of the night (Philpott 1991, Spear 1967). Racial violence was not limited to northern cities, but it became increasingly common in these caties as contact between the races increased. The brunt of this racial violence was directed against black communities that grew most rapidly. The areas most prone to violence were adjacent to, and in the growth path of, the consolidating black ghettos. Durme the worst episodes of white-on-black violence. gangs of white youds would put blacks off of public transportation lines to beat them (Philpott 1991, Spear 1967) During the 1919 Chicago race not. white gangs even went through black reighborhoods searching for black victims. Although housing issues did not always spark the worst examples of racially motivated violence, the goal of the violence was always to enforce social separation of the races. Figure 9.2 illustrates the impact of racial violence on blacks.

White residents also excluded blacks through more subtle means. Faced with blacks' desperatanced for housing and their inevitable "incursion" into white neighborhoods, white homeowners and neighborhood leaders organized neighborhood improvement associations to do whatever they could to exclude blacks. The associations attempted to convince white owners and landlords not to self or rent to blacks. They conceiled money and attempted to buy outright properties that were "threatened" with racial transition. They encouraged banks to not lend money to blacks and pressured real estate agents to

treat as unethical the showing of properties in white neighborhoods to blacks. Perhaps most important, they devised and instituted the restrictive covenant, which made it unegal for white owners to sell property to blacks if a majority of the neighborhood residents opposed such a transaction

More formal mechanisms of concentrating blacks in racially defined ghettos emerged during this period, although they became much more prevalent in the post-World War II period. For example, there were brief attempts at direct legal segregation (i.e., presembing by law where blacks could and could not live) between 19.0 and 1917, mostly in southern and border states, which were struck down by the Supreme Court as unconstitutional (Rice 1968). The most influential role of law during this period was to support the legality of restrictive covenants until 1948, when they were ruled unenforceable.

Institutional practices played an important role in creating a dual bousing market, with very different rules for whites and blacks, during this period. Some real estate agents practiced racial steering blacks (even those who could obviously afford it) were not shown property in white neighborhoods, and whites were not shown property in mixed or transitional neighborhoods. Other real estate agents (black and

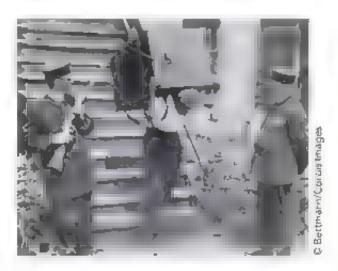


Figure 9.2 The 1919 race riot in Chicago forced many blacks to leave their homes, increasing residential segregation and leaving to a racially segmented housing market

white) profited from block busting, in which they would generate racia, fear by bringing a black family into a white neighborhood and then playing up the situation to white neighbors in hones that the neighbors would sell cheaply. Real estate agents often would buy property themselves and either resell or rent it to blacks. Subdividing apartments into small sutchenettes and charging exorbitant rents. were also common practices. Lending institutions and insurance agencies contributed to the problem by rediming black neighborhoods and denying mortgages to blacks

Postwar Institutionalized Ghettos

The patterns of racial segregation established in the early decades of the twentieth century largely remained in place until after World War II. After the war, much could have changed, but did not. In Chapter 8 we discussed many of the changes sweeping across North American cities during the postwar years: unprecedented economic growth, massive increases in housing stock (in the form of suburban development), rapid nereases in home ownership fueled by revolutionary changes in the housing finance system, and notable successes by the civilrights movement. These forces easily could have ended the racial ghetto. Instead, divides between the racial ghetto and the rest of urban society were deepened and strengthened.

Urban historian Amold Hirsch (1983) argues that during this period a "second" racial ghetto was created, continuing yet distinct from the first. These newly created ghettos occupied a larger area, housed much larger population, and imposed increasing ievels of social and spatial isolation on their rest Jents. Chicago is illustrative, in 1920, although the outlines of the first ghetto had been drawn, no blacks fived to a census tract that was more than 90 percent black, By 1960, however, more than 50 percent of Chicago blacks lived in almost exclusively black tracts (Figure 9.3). Understanding the second ghetto is crucia, to our understanding of contemporary issues of race, segregation, and poverty

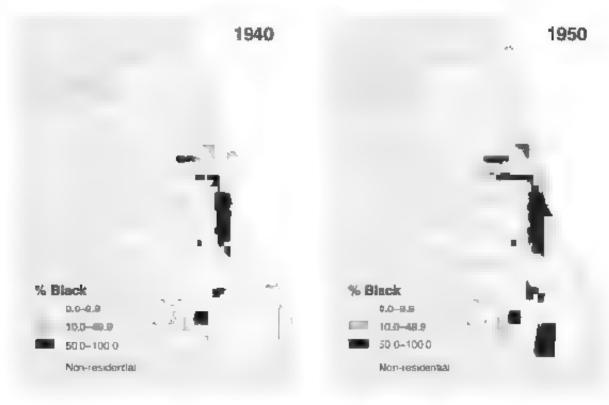
The dual housing market inscribed into cities during the 1920s prevailed for several decades

Conditions in the post. World War II decades quickly deteriorated, however, Significantly, the interation of southern rural blacks into the industrial cities of the North, Midwest, and West resumed during the warand continued through the 1950s and 1960s, fueled by increased demand for industrial labor as wellas continued changes in the southern agricultural economy. The numbers of black migrants during these years actually exceeded the number of inigrants during the Great Migration. Even so, the color line inscribed on the city during the 1920s remained in place, and it combined with the stagnant housing market through the Depression and war years to create severe overcrowding and bottled-up demand for housing within the first ghetto. This overcrowd. ing contributed to the perception of "bught" and encouraged the efforts of the local growth machines. to eliminate these areas, Public housing did not provide much in the way of real reaef

Pressure increased on the neighborhoods immediately surrounding the existing black shetter as blacks, many of whom were benefiting from postwareconomic prosperity, sought better housing. In the Immediate postwar years, white residents in adjacent neighborhoods fiercely resisted attempts by blacks to cross old color lines. The pressure was too great in most areas, however. So, when newly constructed suburban housing became available, many whites rapidly moved out of older neighborhoods, surrendering them to black households in a process described as white flight. Note that these types of racia, transitions took place relatively quickly and that they could have occurred only when new housing was being constructed for whites on the fringes of the cities.

Government-Supported Discrimination The second ghetto is distinct from the first, in part, because of the expanded role played by government regulation, Many of the changes in the housing finance system implemented during the Great Depression (described in Chapter 8) played a signifleant role in deepening radial segregation during the postwar years

The adoption of redlining practices in the Federal Housing Administration (FHA) loan guarantee



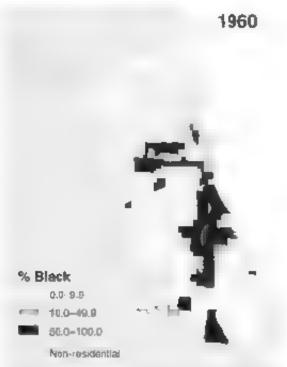


Figure 9.3 Changing racial geography of post World War II Chicago. *Source*. Authors, based on data and boundaries tries obtained from the National Historical Geographic Information System (www.ingis.org). Minnesota Population Center (2011)

program, in particular, resulted in a severe shortage of mortgage capital and adequate insurance coverage in segregated inner-city neighborhoods (Figure 9.4). The racial logic of the residential risk ratings scheme is obvious from the passages quoted from the documents that supported the redlining maps. From the beginning of the FHA program through the mid-1960s, when the practice was stopped because it was recognized as discriminatory and in violation of civil rights protections, the vast majority of all capital guaranteed by the FHA went to predominantly white neighborhoods. Given that most minority-dominated

neighborhoods (and adjacent neighborhoods threatened by racial transition and tipping) were located in older parts of the city, the racial politics of FHA policies only encouraged suburban sprawl

Public Housing and Urban Redevelopment

The federal government also contributed to the construction of the great urban ghellos in more concrete ways, through redevelopment, urban renewal, and public housing. We discussed much of the history of urban renewal and public housing in Chapter 8. Here we want to stress that these developments

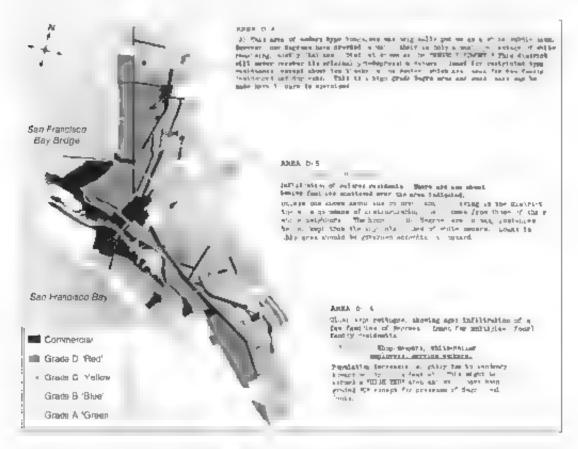


Figure 9.4 Rediting in Oak and, California. The Home Owners' Loan Corporation (HOLC) produced a series of detaded Residentia. Security Maps begaining in 1935 that rated neighborhoods based on the risk they presented to real-estate investments. The racial composition of neighborhoods was a major before considered by HOLC. This map of Oaksand and Berkeley is based on the 1937 Residential Security Map. Areas graded "D" were colored red on the maps and deptet the areas considered to present the greatest risk. The comments are the action appearance by the evaluators as part of their evaluations. Sometic Map produced using resources obtained from R. Marc and D. Coloreg C. Houlling. "T. RACLS is Testbed for the Redlining Arch ves of California's Exclusionary Spaces." http://salt.anc.edu/T. RACLS.)

had a tremendous impact on the racialized ghettos of large cities.

Motivated by general patterns of central city decline, powerful coalitions of business and governmental officials leveraged enormous sums of money to assemble and redevelop areas close to the central business districts of many cities. Racial segregation resulted both because the role of public housing was transformed and because poor blacks were displaced from these areas.

Public housing contributed to the creation of the second ghetto in the post-World War II decades by spatially concentrating and anchoring the poor in ghettos. This accurred for at least three reasons. (1) Public housing became the housing uption of last resort for the poorest of the poor displaced from areas undergoing redevelopment, rather than temporary housing for apwardly mobile low-incomeworkers, as it had been originally conceived. (2) Most public housing became extremely segregated by race. Figure 9.5 illustrates the racial antagonism. surrounding public housing. The Sojourner Truth Homes opened in 1942 to provide housing for veterans. White residents strongly opposed the integration. of the project, Racial tensions remained high until they erupted into the deadly Detroit race not in the summer of 1943. Note that violent resistance to the integration of public housing continued through the 1950s when, as part of redevelopment schemes, local housing authorities placed poor displaced blacks into existing and newly built public housing (3) Almost all public housing occupied by African Americans was sited in neighborhoods that were already (or soon to become) poor and minoritydominated. For example, in Chicago, 33 public housing projects were built between 1950 and the mid-1960s. All but one of these projects were built in areas at least 84 percent black (at the time of project completion). Overall, 98 percent of the 21,000 apartment units built during this period were located in all-black census tracts (Harselt, 1983, p. 243).

Displacement occurred when buildozers fore down older "blighted" housing that had affordably housed





Figure 9.5 Public housing, originally designed for white working poor, was integrated beginning in the 1940s. Here, Detroit's Sojourner Truth Homes became the site of white hostility when back veterans attempted to move in. (a) shows the organized resistance of whites, (b) communicates the clear desire of whites for segregation. Source: Library of Congress, Prints and Photographs Dry siton Farm Security Administration. Office of Was Information Photograph Collection. Photograph by Arthur S. Stegel.

poor blacks and minorities. The displaced poor, especially the poorest of the poor who had the greatest difficulties finding housing in the private market, ended up in many existing and new public housing units. The pressure placed on public housing to provide housing for people displaced by redevelopment also reinforced the racist siting decisions being made by local political powers and housing authorities.

The urban redevelopment projects of the 1950s. and 1960s had another and perhaps more significant impact on the creation of the second ghetto. The arge number of displaced poor residents intensified pressures on the private housing market in addition to placing pressure on public housing, especially for minorities who already faced restricted housing choices. Because the suburbs were effectively closed to them by government discrimination in the FHA and VA loan programs, blacks were forced to search for housing in non-ghotto neighborhoods within the city, typically in aeighborhoods adjacent to the old ghetto. Under these circumstances, it is no surprise that considerable tension existed in these neighbor boods, especially among whites who were anable or unwilling to move to the suburbs. Figure 9.6 illustrates the ongoing white resistance to racial integration of neighborhoods through the 1950s and 1960s.



Figure 5.6 White resistance to residential integration sometimes violent, marked the 1950s and 1960s. This photo was taken in a Chicago suburb during the .960s.

Economic Transformations and the Outcast Ghetto. By the end of the 1960s the racialized ghettos of northern cities had changed considerably. Observers of ghettos at the close of World War II portrayed a racially isolated but economically and culturally connected commanity. Drake and Cayton (1945), in their classic exhaustive study of Chicago's "Bronzeville" in the late 1940s, depicted a thriving community. Robert Weaver noted at 1948 that

The Negro [sic] ghetto of today is made up of people who are American to the cose, who are part of the national culture and who share a common language with the majority of Americans. Its inhabitants are better prepared and more anxious than ever before to enter the main stream of American life. Residential segregation, more than any other single institution, is an impediment to their realizations of this American Dream (Weaver, 1948, p. 7, quoted in Marcuse, 1996, p. 180)

By the close of the 960s, however, conditions had changed considerably. As a result of the institution-alization of the racialized ghetto, described in the previous section, the ghetto had become a less hopeful place. Kenneth Clark's problematic description still provides a useful summary

The dark ghetto's invisible walls have been erected by the white society, by those who have power, both to confine those who have no power and to perpetuate their powerlessness. The dark ghettos are social, political, educational, and—above all—economic colonies. Their inhabitants are subject peoples, victims of the greed, cruelty, insensitivity, guilt, and fear of their masters. (Clark, 1965, p. 11, quoted in Marcuse, 1996, p. 180)

Marcuse correctly notes that Crark's description still links the gheato to the dominant society in that it provides an economic benefit to the dominant society Nevertheless, he argues that ghettos of today are different in ways that he links to economic changes.

Those in today's black ghettos are not productive for their masters, their masters get little benefit

from their existence. As far as the dominant society is concerned, most residents of the new ghetto are only a drain on public and private resources, a threat to social peace, fu.fi. ing no usefu, social role. They are outcasts, hence an outcast ghesto-"defines, isolates, and contains" its victims. (Marcuse, 1996, p. 181)

On top of these changes, volatile conditions in the pacialized ghetios erupted into blatant violence in the summers of 1965 through 1968 (Box 9.2).

In the following section we discuss several major trends that have shaped the evolution of ghettos through the concluding decades of the twentieth century: civil rights advances, de adustrialization, and globalization. We conclude by addressing ways that scholars and policy makers have attempted to understand the new ghetto.

Civil Rights One of the major features of the last decades of the twentieth century relevant to racial segregation is the implementation of-and subsequent retrenchment from-civil rights. Grass-roots efforts to end legally recognized segregation (not just residentrully, but in terms of equal access to all "public" facilthes like transportation and bathrooms) swelled in the late 1950s, continuing through most of the 1960s. One target of these efforts was discrimination in housing markets (see the discussion in Chapter 8). The federal

BOX 9.2 LEBAN RIOTS OF THE 1960S

Between 1965 and 1968, some 83 U.S. cities experienced race riots. In the first nine months of 1967 alone, eight major events and 33 additional serious events occurred. including large-scale riots in Detroit and Newark, The report of the National Advisory Commission on Civ I Disorders (commonly known as the Kerner Commission) appointed by President Johnson to study the events drew strong conclusions about the causes of the events. The commission rejected simplistic explanations that blamed the violence on rowdy youths or conspiractes or out siders starting up trouble, and pointed instead to structural racism reflected in deepening rac al segregation combined with economic disadvantage experienced by urbanminorities—the very themes that concern us in his chapter The commission stated, "This is our conclusion: our nation is moving toward two societies, one black, one white-separate and unequal . What white Americans have never fully understood-but what the Negro can never forget-is that white society is deeply implicated in the ghetto. White institutions created it, white institutions maintain it and white society condones it (U.S. Advisory) Commission on Civil Disorders, 1968 pp. 1-2).

Although the commission was entical in its reflechous on the causes of the urban unrest, it was cautiously optimistic in its proposals, and felt that the prosperity of the U.S. economy, if effectively motivated with new will and vision, could make real changes. Unfortunately, the specific recommendations of the commission were largely ignored, and the trends towards racial separation Jun it predicted have in many ways come true. Although the Kerner commission urged that the unrest of the 1960s be used as a stimulus for concerted action to eradicate racism, the unrest actually intensified arban problems. latter-city areas were increasingly seen as places of danger and enrest, which tetensified white flight and econonne decentralization, further deepening the racial geographic separations that we have discussed. In addition, some of the areas damaged in the 1960s conflicts have yet to be restored.

Sign ficantly, urban unrest has not disappeared. In 1992, for example, Los Angeles crupted anto conflict in response to the acquittal of the four police officers who had been videotaped beating black motorist Rodney King, Although many explanations for that conflict have been proposed, a is sign heart that many of the characteristics documented in the Kerner report also marked Los Angeles 25 years later. Johnson and Farre 1 (1996) further argue that recent immigration trends exacerbated the long-standing patterns of racism. Hispanics were replacing blacks in many Los Angeles reighborhoods, and Korean unmagrant merchania had taken over many of the local retail facilities. New forms of interethnic conflict thus mark the Los Angeles conflicts, illustrating the ever-more complicated urban world of racialized identity and poverty.

underpinning for redining was struck down, and laws codified the federal government's opposition to racial discrimination throughout housing markets.

Several trends follow these civil rights successes. First, some African Americans were able to take advantage of freer acress to education and reduced hiring discrimination to advance economically. Whereas the black middle class previously was limited to community-based entrepreneurial opportunities (i.e., businesses and services catering to a segregated black population), a much larger and more diverse black middle class began to emerge in the last two decades of the century. Although substantial wealth disparities remain between black and white middle-class families of similar income, there has been a limited convergence of meome.

Second, the reduction of racial barriers expenenced in the housing market anowed an increased number of black families, especially those with middle-class incomes, to move out of the traditional black ghetto into suburban housing. Although many serious issues remain, including the resegregation of suburban areas and ongoing white flight once black from hes move in there are substantially fewer neighborhoods that are completely devoid of black residents.

Deindustrialization and Globalization The 1970s and 1980s witnessed a major deterioration of economic and social conditions in the racialized neighborhoods of many major cities. Urban industrial economies were devastated by the widespread loss of manufacturing jobs and the rise of globalization and advanced services as the economic base of cities These changes were especially problematic for innercity neighborhoods historically located close to the factories that provided stable and high-wage employ. ment During the 1950s and 1960s, even as blacks were ingrating to cities to find employment, industrial activities began to move away from the historic innercity, at first to suburban and nonmetropolitan locations, and later to sites in other countries. Industriacompanies sought to reduce labor costs and to disempower organized labor. At the same time, industrial production also underwent other dramatic changes that compounded the adverse impacts on cities.

Perhaps most significantly, compaier and numerical technologies nereasingly replaced human labor

In combination, the relocation of industry away from cities and the restructuring of industrial production away from labor intensive process were so dramatic that we refer to the result as deindustrialization. The pronounced impacts of deindustrialization were amplified because of all the other jobs to local areas that depend on manufacturing. The multiplier effects that we describe in Chapter 6 apply here, only in reverse. If one manufacturing job supports several nonmanufacturing jobs through local spending, the loss of that manufacturing job threatens all of those other jobs. Overall, these transitions removed thousands of job possibilities that had historically provided upward economic mobility for generations of immugrants and magrants.

The impacts on racialized ghettos were severe. Rates of joblessness and poverty skyrocketed during these decades. Thousands of people grew so discouraged with the lack of employment opportunities that they no longer tried to find jobs. Witson (1987) documents that among 25- to 34-year-old nonwhite males, the share who held jobs declined from almost 88 percent in 1955 to just more than 76 percent in 1984. The decline in employment among leenage and young adult males was even more gramatic more than 20 percentage points for 18- to 19-year-olds, and 25 percentage points for 16- to 17-year-olds.

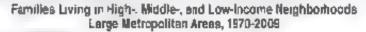
Job opportunities did not completely disappear from the inner city, however. In fact, as manufacturing jobs decreased, services, especially high-order services, expanded Economic growth occurred in sectors tied to the increasingly global economy. Multinational transnational corporations grew, based in part on their multilocational production strategies. With basic product fabrication and assembly relocated to the developing world, many of these corporations were able to expand considerably during the decades. Many U.S. cities, especially the largest cities, grew increasingly important as locations where the globalizing economy was controlled and managed.

Thus, many of the same cities that suffered devastating manufacturing tob losses due to

BOX 9.3 THE RISE OF INCOME SEGREGATION

Growing accome inequality over the last several decades has become a topic of great concern and debate. To what extent can we see the increasingly polarized nature of our income distribution reflected in the residential patterns of the city? Kendra Bischoff and Scan Reardon (20.3) examined that topic using Census data for 1970, 1980, 1990, and 2000 and similar data drawn from the 2007 201, five-year pool of American Community Survey (ACS) data, also produced by the Census Bureau. They found that

resident al segregation by income has increased noticeably over the last four-plus decades. Figure B9.1 strikingly shows that the share of US, families that live in low- or high middle income neighborhoods has declined dramatically since 1970. Families are now more than twice as likely to live either in an affiliant neighborhood or in a poor neighborhood, than they were previously (33 percent in 2009 versus 15 percent in 1970). The share of families living in middle-income neighborhoods dropped from 65 percent.



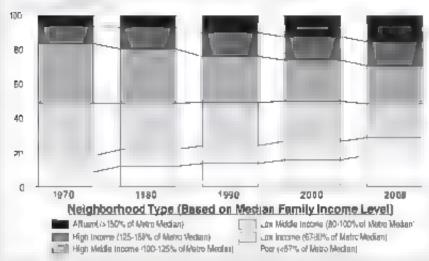


Figure B9.1 The increasing concentration of families in either affinent or poor neighborhoods. Source: Modified from Figure 1., Bischoff, Kendra and Sean F. Reauton. 2014. "Residential Segregation by Income, 1970–2009." In John R. Logan Ed., The Lost Decade? Social Change in the U.S. after 2000. New York, NY: Russell Sage Foundation.

deindustrialization also experienced growth fueled by globalization. In these cities, striking paradoxes increasingly emerged. The new, service-onented economy required a labor force that was highly educated, professional and upwardly mobile. Thus, employment opportunities began to increase for wealther, better-educated people just as they were declining for lower income blacks. As a result, devastating poverty increasingly coincided with excessive wealth. Many geographers refer to these contrasts as social polarization—the increasing guif between the rich and poor Racialized ghettos became increasingly iso ated from the mainstream economy as deindustrialization devastated local economics.

Social/Spatial Isolation and the "Underclass" Question Some observers link two trends discussed above deindustrialization and civil rights progress. Prominent sociologist William Ju ins Wilson (1987) argues that the convergence of these trends pushed many black communities into crisis. Economic transformations made it impossible for an increasing share of inner city blacks to hold stable jobs while upwardly mobile blacks were increasingly able to leave the traditional ghetto

The result, according to Wilson, was the creation of an **urban undercluss** of people effectively outside mainstream society. The concept of an underclass has become too controversial to have much current utility (some used at to blame the poor for their poverty

to 42 percent. Notably affluent families are more residentially segregated from everyone else than are poor families, even though we express more social and political concern with the spitial concentration of poverty. Figure B9 2 shows the steady increase in the income segregation of families by race. Black and Hispanic families have experienced a more pronounced increase in income segregation than have white families. This trend is especially noticeable since both groups saw a decline in income

segregation during the 1990s. While reasons for the sharp recent increase in income segregation among these groups are not clear the authors of the report suspect that it might reflect a combination of the growth of theome inequality with the groups, and racially patterned consequences of the mortgage lending patterns in place prior to the collapse of the housing market in the late 2000s, Finure data that post-date the financial crisis can help answer the question.

Trends in Family Income Segregation, by Place Large Metropolitan Areas, 1970-2009

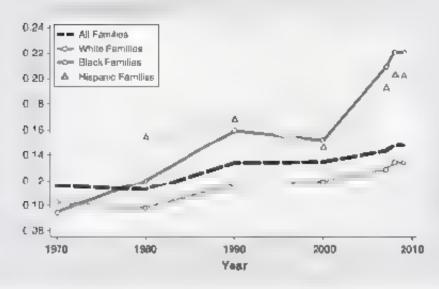


Figure B9.2 Income segregation for families by race in large metropolitan areas. Source: Medified from Figure 2, Breshoff Kendra and Scan F Reardon. 2014. "Residential Segregation by Income, 1970–2009." In John R. Logan Ed., The Lost Decade? Social Change in the U.S. after 2000. New York, NY Russe: Sage Foundation.

by focusing on "underclass behaviors"), but Wilson effectively high ighted the severe problems faced by the residents of racialized ghettos. One of the more important aspects of his work was his focus on the finkage between social isolation and spatial isolation. The result of historical patterns of segregation oversain with economic distress was to create a community that had very few effective ties with mainstream society. Thus, we return to Peter Marcuse's (1996) view of the ghetto as an economically isolated place—an outcast ghetto—where socially unwanted groups are conjected and stored as far away as possible from the core of mainstream society. Jargowsky and Yang (2006) analyzed 2000 Census data and found a dramatic reduction in neighborhoods that can be

labeled "underclass," in large part because of reductions in the spatial concentration of poverty—a topic that we address in the next section

POVERTY AND THE CITY AND BEYOND

So far in this chapter, we have dealt mostly with racial segregation. As you can see, it is very difficult to talk about racial segregation and segregated places without also talking about poverty. But to end there would leave you with the incorrect perception that poverty is uniquely a black or minority problem. This is not true, so we want to discuss poverty more directly and more generally than we have so far. Box 9.3 discusses increased attention

being paid to residential segregation by class and/or income-work that provides a useful context for this section's discussion of concentrated urban poverty.

We begin this section with some basic observations about poverty in cities. One of the most profound changes in the broad patterns of poverty in the United States over the last 70 years is its persistent arbunization. At the end of World War II, eities (in this case we are talking about cities, not their suburban regions) housed less than one-third of the poor in the United States. By the end of the century, cities claimed almost half of the poor. When we broaden our view to include cities and their suburbs. the Census Bureau reports that in 2012, almost 82 percent of the U.S. poor lived in metropolitan areas. This shift in the location of the poor towards urban and metropolitan areas reflects broader patterns of the urbanization of the general population discussed in earlier chapters. Yet this shift has been manifest in new ways within cities.

Spatial Concentration of Urban Poverty

Once we start looking at the distribution of the urban poor across neighborhoods within cides, we note several distarbing trends. First, the spatial concentration of poverty within a set of extremely poor neighborhoods increased markedly from the 1960s through the 1980s. Paul Jargowsky (1997) found that the number of high-poverty neighborhoods (census tracts where > 40 percent of the population is poor). more than doubled between 1970 and 1990. The number of people living in these areas increased from 4.1 million (3.0 percent of total) to almost 8.0 million (4.5 percent of total), and the number of poor people by ag in these neighborhoods increased from 1.9 mil-Iron (12.4 percent of total) to 3.7 million (17.9 percent of total).

There has been an active dehate over what caused the increased spatial concentration of poverty in the 1970s and 1980s. Wilson (1987) argued that for blacks it was the combination of the black middle class increasingly taking advantage of opportunities to move out of the ghetto, and increased joblessness due to deindustrialization. While Massey and Denton (1993) agreed with much of what Wilson described, they demed that improved housing opportunaties for blacks were to blame. Instead, they argued that ongoing racial segregation and racial discrimination in housing markets were to blame-the economic dislocations produced by de-industrialization were concentrated by racial segregation. Jangowsky (1997). takes a somewhat broader view, arguing that the multistranded economic restructuring of the 1980s and 1990s generally led to increased economic segregation, and specifically increased spatial concentration of the poor. He noted that different economic changes were responsible for this process in different areas, for example, demdustrialization was the chief facfor in Northeasiern cities but not in Sanbelt cities. Common to all areas, however, is increased economic polarization and the nability of low-level service jobs to sustain populations above the poverty level.

The increased spatial concentration of poverty an urban neighborhoods did not affect all groups equally Almost all research confirms that urban btacks have been disproportionately affected by the spatial concentration of poverty. For example, Jargowsky's (1997) analysis of 1990 Census data shows that while the black share of the total U.S. poor was 26.6 percent, the black share of poor persons living in extremely poor neighborhoods was 65.0 percent. At the same time, however, blacks are not the only group to experience concentrated poverty. Of the poor people living in extremely poor neighborhoods in 1990, almost 17 percent were white and almost 27 percent were Hispanic Mu.herin (2000) studied the poor whites and found that cities marked by concentrated white poverty (Figure 9.7) are not the same as the cities where blacks and Hispanics fve in concentrated poverty This pottern owes more to the regionally localized patterns of cyclical migration from the Appalachian Mountain region, which historically has been marked by pockets of concentrated rural poverty. In many of the cities where white poverty is most concentrated, it is recent in-migrants from Appalachian areas that constitute the residents

Resulting from the economic boom of the late 1990s, the number of high-poverty neighborhoods

0.0%-1.3% 1 4%-3.7% 3.8%-7.6% 7 7%-19.8%

Poor Whites Living in Concentrated Poverty, 1990

Figure 5.7 Whites living in concentrated arban poverty. Source: Adapted from Figure 4, Mulberth, Stephon, 2000.

declined dramstically during the decade, from 3,417. m 1990 to 2,510 in 2000. The total number of residents in high-poverty areas declined by 24 percent, from 10.4 million in 1990 to 7.9 million in 2000. The number of poor residents similarly declined, from 4.8 million in 1990 to 3.5 million in 2000, even though the total number of poor people. increased nationally, from just fewer than 32 million. to just fewer than 34 million. Overall, the share of the poor who live in extremely poor neighborhoods dropped from 15.1 percent to 10.3 percent. The concentration of poverty fell for all racial groups, but most strongly for African Americans (30.4 percent to 18.6 percent) and American Indians (30.6 percent to 19.5 percent). The decime was regionally most prominent in the South and Midwest

All was not good news, however Several prominent metropolitan regions experienced increases in the concentration of poverty during the 1990s. In Los Angeles, for example, the share of the poor living in extremely poor neighborhoods increased from 17.3 to 21.3 percent for African Americans and from 9.1 to 16.9 percent for Hispanics. The concentration of poverty in extremely poor neighborhoods among Hispanics increased in several metropolitan areas in the West, particularly in California's Central Valley.

Concentrated poverty came back during the 2000s, no doubt reflecting the end of the late 1990s economic boom. A "regular" recession in 2000 preceded the Great Recession later in the decade. Figure 9.8 shows that the number of poor people increased notably after both. The poverty rate also increased. Figure 9.9 shows both the degree to which poor people lived in extreme-poverty neighborhoods (>40% poor) around 2007, and the change from 2000 Several patterns are evident. (1) Concentrated

Number in Poverty and Poverty Rate, 1959 to 2012

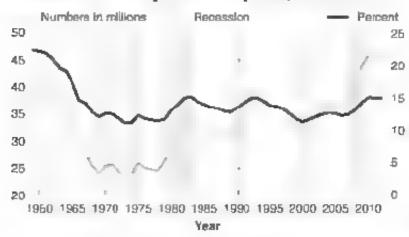


Figure 9.8 Poverty population and poverty rate. 959-2012. Source: DeNavas, Wait et al. 2013.

Concentrated Poverty in the Nation's Top 100 Metro Areas



Figure 9.9 Concentrated poverty in large metropolitan areas during the 2000s. Circle size includes the concentrated poverty rate and shading indicates the change in concentrated poverty that she between 2007 and 2007. Source: Modified from online interactive map on website supporting Kneebone, Nadeau, and Beruhe 2011 (http://www.bibokings.edu/research/papers, 2011, 1703 poverty-kneebone-nadeau-beruhe].

poverty rates increased in the Midwest. Many of the cities that had seen improvement in the 1990s. were now facing declines. Kneebone, Nadeau, and Berube (2011) attribute this to renewed detadustrial zation and an uneven recovery from the early 2000s recession. (2) Some of the cities that experienced high growth in concentrated poverty during the 1990s. were now showing decline in the 2000s, including the cities of California's Central Valley (3) The impact of hirricane Katrina is evident in New Orleans' decline in concentrated poverty, combined with increases in nearby cities that received Katrina migrants

Evidence of the housing crisis and the Great Recession are probably not yet evident in the data used for Figure 9.9 (note that the data for "2007" are averages of data collected each year between 2005 and 2009—only a small share of these data are post-crisis). Anticipating that the subprime and foreclosure patterns will carry over into poverty concentration patterns, we suspect that poverty concentration will have increased most, over the last several years, in metropolitan areas in the "Sand States" of California, Arizona, Nevada, and Florida.

An important geographic pattern related to spatially concentrated poverty became apparent in the 1990s and intensified during the 2000s. The initial concern with concentrated poverty was based on the inner-city neighborhoods devastated by deindustrialization and anchored by large public housing projects. During the 1990s, concentrated poverty declined for many of these areas, but suburban areas did not share in improving conditions. Census 2000 reported that 42 percent of the U.S. poor lived in central cities and 36 percent in suburbs. Of the metropolitan poor, almost one-half (46 percent) lived in suburbs. By 2012, 55 percent of the poor living in the 100 largest metropolitan areas lived in suburbs, signaling a major realignmen, in the urban geography of poverty. Kneebone, Nadeau, and Berube (2011) confirm that poverty concentration, both in terms of the number of extreme-poverty neighborhoods and the share of the poor who live in them, increased most rapidly in the 2000s in suburbs (versus central cities), specifically in exurbs and developing suburbs (versus dense older suburbs)

Consequences of Concentrated Poverty: The Neighborhood Effects Debate

Scholars and policy makers disagree on how to assess and respond to the changing intensity and geographic patterning of poverty concentration. Some (for example, Jargowsky, 2003) applaud the successof poverty dispersal policies that include the demolition of project-based public housing and the major. change in welfare policy implemented in 1996 Others (for example, Goetz, 2002) argue that these policies are part of a broader neoliberal restructuring of urban governance that favors the advantaged (interms of making inner-city neighborhoods available for gentrification and redevelopment) at the expense of poor families (in terms of reducing the overall availability of affordable bousing)

Even when scholars and policy makers disagree on the causes of concentrated urban poverty or its current trends, they share a concern with its consequences. Kneebone, Nadeau, and Berube (2011). summarize consequences into five categories:

- Limited educational opportunities
- Increased crime and poor health outcomes.
- mindered wealth building
- 4 Reduced private-sector investment and increased costs for goods and services.
- 5 Increased costs for local governments.

The basic argument is that living or growing up in poor neighborhoods has negative consequences. Residents do worse in school, have greater problems finding stable work, and are more likely to engage in eriminal activity. Much of the work in this field was stimulated by Wilson's 1987 book The Truly Disadvantuged, in which he argued that concentrated urbanpoverty has langering effects. He called these effects concentration effects, but today most scholars refer to them as neighborhood effects, a term that suggests that neighborhoods matter in their own right. Before we evaluate these issues more thoroughly, we discuss some of the basic premises of neighborhood effects. theory (see Sampson, 2012, for detailed discussion).

Poer Effects Neighborhood effects theory suggests the importance of peer effects, especially upon young people. Growing up in a neighborhood where many peers engage an problematic behavior will increase a young person's chances of also engaging in those behaviors. Even though this seems a "common sense" way of evaluating neighborhoods, and characterizes popular imagination and policy making, it is highly problematic because it is too simple. Only limited empirical evidence supports this notion, suggesting that it plays out only in the most heavily impacted neighborhoods. Other studies suggest that the presence or absence of advantaged neighbors is more important than the concentration of disadvantaged neighbors.

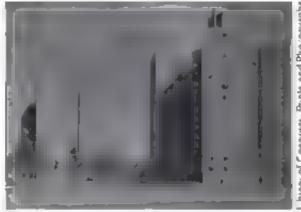
Social Control A broader research theme is the nature of social relationships that dominate in poor urban neighborhoods. This research often refers to two key mechanisms, role modeling and supervising public behaviors.

The role model argument auggests that in extreme-poverty neighborhoods, young people do not see adults engaged in convent onal activities that help to socialize them into the behaviors and values that the labor market rewards. That is, growing up in an environment where adults get up and go to work each day demonstrates the discipline needed to succeed in getting a job. When there are no adults going to work, youths are deprived of positive role models and thus are never exposed to the small yet important behaviors and values necessary to find and keep jobs.

Collective efficacy is a venant of this argument advanced by Sampson (2012) that focuses less on the psychology of role modeling and more on the ability of the community within the neighborhood to directly supervise and monitor activity in the neighborhood. Poor neighborhoods historically had a mixture of residents, some poor and some not. There was often conscients, some poor and some not. There was often conscients, some poor and some not. There was often conscients, filling the streets. There were many "eyes on the street" in these contexts, monitoring behavior. Young people were known in the neighborhood, and if they got into trouble, shop owners or neighbors would tell the parents. Young people knew that they would face the consequences of their behavior when they got home.

As poverty became more concentrated, however, especially in the areas that were redeveloped into superblock public housing projects, it became more difficult to monitor behavior informally. Sometimes this problem was related to the physical design of the neighborhood. Superblock public housing, built according to modernist architectural design principles, consisted of large, high-rise buildings interspersed with large open spaces (Figure 9-10). Instead of providing everyone access to the open space, however, this design made it very difficult to know neighbors and to informally supervise the activities of neighborhood residents (see the discussion and photographs of Pruit Igoe in Chapter 8).

Another reason that behavior is more difficuto supervise in contemporary neighborhoods with concentrated poverty is that poor residents are very mobile—they move around a lot. Given the increasing crisis of affordable housing at most eithes, adequate housing for the poor is a dominant problem. Poor residents often must move several times, even in a single year. With the increased rates of residential instability, informal social ties become more difficult to build and sustain, making it move difficulto informally monitor and discourage behavior that has negative effects on neighborhoods.



Library of Congress, Prints and Phacographs Division, Gotzcho-Schleisner Collection

Figure 9.10 Brooklyn's Farragut Houses Housing Project, completed in 1952, illustrates the superblock design (large high-rise huildings interspersed across open spaces, sometimes referred to as "towers in the park" common of many public housing projects built doing the 1950s and 1960s.

Opportunities and Resources Another variant of the neighborhood effects approach focuses more on neighborhoods' economic opportunities than on their social relationships. This approach ties in with the economic restructuring and deindustrialization arguments that we discussed earlier. One of the great est ironies of late-twentieth century urbanization was the *spatial* disjuncture between where poor people live and where job opportunities are located.

The basic argument is a fairly simple idea, first powerfully made in John Kain's 1968 article. Jobs are eliminated in the central city due to deindustrialization at the same that time that new jobs are being created in, or relocated to, the suburbs. The mony is that the populations most in need of employment are increasingly distant from the opportunities they want. Thus, in the late 1980s and early 1990s, many central city neighborhoods experienced record high unemployment and joblessness at the same time that suburban employers faced a critical labor shortage.

This argument that central city residents are not able to take advantage of suburban job opportuni des because of increasing geographic separation as often called the spatial mismatch hypothesis. It has received a tremendous amount of attention, both in public policy circles and in research (see Preston and McLafferty, 1999 and Bauder, 2000 for reviews). The research results are mixed. Some research supports the basic notion that there is increasing spatial separation between where the poor live and where they work, if they work, Other research goes further by demonstrating that spatial separation makes it more difficult for pour central city residents to locate jobs that pay enough to compensate for the long and often expensive commutes. At the same time, housing market research clearly demonstrates that poor minorities continue to face daunting challenges in securing any bousing, much less housing close exough to job locations to make a difference

Empirical results also demonstrate, however, that the degree of spatial separation between the residences of the poor and job locations varies considerably in intensity across metropolitan areas. Moreover, the impact of spatial mismatch on employment and other labor market outcomes is inconsistent, and never seems to be the most important factor

Institutions, Schools, and Businesses Another argument revolves around the differences in the ways that government institutions react to and service poverty neighborhoods. Police and other emergeacy service agencies are less responsive to calls from poor neighborhoods. Sanitation services do not keep these neighborhoods as clean as wealther neighborhoods. Recreation departments do not provide the same services that they do in richer aeighborhoods.

Perhaps the most damning criticism revolves around schools. Central city school districts are severely underfunded relative to their suburban neighbors, in large part because of the way the United States funds schools based on local property taxes. Even within school districts, poor and minority neighborhoods end up with the oldest buildings in the worst repair, often with teachers who are the least prepared and the least supported by the administration.

Poor inner-city neighborhoods also lack access to reasonable readl opportunities. Think about where in your city the cheapest clothing and school suppnes can be found-most likely in a Walmart, Target, or similar big-box retail outlet. Where are these stores located? In most cases, they are found in large complexes located in the suburbs. Even though central city neighborhoods provide a large consumer base interested in low-gost products, value-oriented retailers often do not locate there. Some central city neighborhoods don't even have a greeery store. As a result, residents are forced to undertake long commutes just to buy food at reasonable costs. The retailers that are located in central city neighborhoods are accused of gouging desperate residents with exorbitantly high prices and offering inferior products.

Stigma and Spatial Discrimination One last argument that we want to consider integrates neighborhoods with the broader society. Emerging from several strands, this theory maintains that most people carry with them perceptions and stereotypes about neighborhoods and the people that

live in them. Regarding poor urban neighborhoods, research shows that employers have very particular impressions about the characteristics of people that live there. In particular, if a job applicant indicates an address in certain stereotyped neighborhoods, employers assume that the applicant has poor work habits, inferior schooling, and bad attitudes. Thus even if the applicant has none of these characteristics, she or he will have greater difficulty finding work, simply because of the reputation or stereotype associated with the place where she or he lives

Evidence and Debotes

In recent years a great deal of research has focused on the impact of living and/or growing up in poor neighborhoods. Yet much of this research is not conclusive The most compelling evidence stems from an accidental natural experiment created by a U.S. Supreme Court decision

The issue at the heart of the case was the location of public housing in Chicago. As we have discussed previously, public housing was most often sited in poor and minority communities-increasingly so as public housing was co-opted by redevelopment interests to warehouse the poorest of the poor, who were being displaced by redevelopment projects. A suit was filed for public housing residents against the Department of Housing and Urban Development (H. D), claiming discriminatory siting procedures

After several court cases over several years, the Supreme Court ultimately agreed with the plaintiffs (Hills v. Gautreaux, 425 U.S., 1976). The Court issued a consent decree that required corrective action on the part of public housing agencies. The Gautreaux program was created as part of the implementation of this decree. The program subsidized private apartments, either in the central city or in the (mostly whate) suburbs, for public housing residents. What made this a good test of the effects of residential location is that assignment to private apartments was made quasi-randomly with regard to central city versus suburban location, that is, residents had little choice about their eventual location. In addition, the neighborhood environments that most of the public housing residents leave behind are almost uniformly bad

Research has evaluated the results of relocating families out of extreme concentrations of urban poverty into other types of neighborhoods. Rosenbaum (1995) reported that after low meome black students experienced some initial difficulties in adapting to white suburban schools, they performed far better after several years than did Gautreaux children living in city apartments. Moving to the suburbs also had simuar benefits in the labor market. as shown in Table 9.6. Employment was uniformly higher among residents relocated to suburban apart ments, even among those not employed prior to their move

Poverty, especially urban poverty concentrated in particular neighborhoods, has always been a lightning rod of public debate. These debates over the sources and expressions of poverty are in many ways central to the way we define ourselves as a

Table 9.6 - Effect of Suburbar Move on the Employment of Public Housing Residents in Chicago

	% Residents Employed	
	Participants Moving to Suburban Aportments	Participants Moving to Central-City Apartment
Before Move	64.3	60.2
After Move	63,8	50.9
After Move, of Those Employed Refore Move	73,6	64 6
After Move, of Those Not Employed Before Move	46.2	30.2

Source Rosenbaum, J. E. and S. J. Popkin, 1991.

society. We do not have space to fully discuss these debates, but in the following sections we present something of the flavor of these debates. In the concluding section we discuss some of the major policy efforts to address these issues. George Galsier (1996) describes a deep ambivalence in America towards poverty—one that results in sometimes-dramatic pendulum swings in public opinion and policy institutes:

Rather, the center of gravity on the poverty issue seems to be defined by the deeply scated American ambivalence towards the poor. Are the poor somehow fundamentally different from the mainstream and undeserving of public support, or not? Are the observed behaviors of the poor indicators of their personal shortconings or adaptations to the structural barriers that society has crected? Thus, although demographic and economic trends and new policy research can swing the pendulum in one direction or another, such changes will be often counteracted by this underlying ambivalence toward the poor (p. 39)

Morality and Responsibility One of the most enduring controversies surrounding poverty revolves around the issue of individual responsibility. Powerful political platforms have rested on apposing perspectives. Some platforms are centered on the assumption that individuals are responsible for their own behavior, and thus for their own poverty. Others are centered on the assumption that individuals are not responsible for their own poverty, or at least not fully responsible. This fundamental split shapes all discussions of poverty.

We, the authors, take the view that all individuals are responsible for the choices they make. Even so, not all individuals have the same choices—and that the differences in choices that people face are related to structures of society and the economy. At one level, there is much ment to the observation that market economies in a capitalist economy require some degree of poverty—the system will not continue to function if there is not a group of poor people that are useful to discipline the working class. The question then becomes, who are the poor, and when

and where will their poverty be imposed? Within this framework, people still have choices, and they bear some moral responsibility for those choices. The choices, however, may not include leaving poverty. There is ample empirical evidence that adhering to the American Dream, (i.e., working hard, playing by the rules, and so forth) does not always result in a happy middle-class life.

Culture and Poverty versus Culture of **Poverty** One of the flash points in the debates over urban poverty consistently has been culture. A commonsense argument is only one step removed from directly blaming individuals for their own poverty whole cultures (or, perhaps more commonly, subcultures) are blamed for unequal distributions of poverty. If minorities living in central city neighborhoods (or whites living in a rura. Appalachian community, etc.) disproportionately expensace poverty, then there is something wrong with "their culture." "They" don't teach the work ethic, or "they" have higher expectations than "they" ought to. These notions in their crudest forms signify cultural projudice and are often reflected anto existing socioculumi divisions, including national ongin, race, and geography.

Cultural arguments are not always so crude. One cultural argument that has inspired passionate debate emerged in the 1960s when anthropologist Oscar Lewis argued that the lack of economic opportunity creates ongoing structural disadvantages that lead to changes in the community's culture. These cultural responses (i.e., values and behaviors) are adaptive to the structural setting that defined the community's context, but they are not helpful for individuals who want to succeed in a market economy. Cultural adaptation may help the community deal with their poverty. but simultaneously inhibit the community's ability to advance economically Lewis's argument was distinctive in his suggestion that cultural adaptations can become permanently rooted in the culture. In other words, adaptive custimal responses are internalized and passed on intergenerationally

Lewis's (1966, 1968) theory came to be known as the culture of poverty perspective and has come under intense criticism. Critics contend that Lewis's

explanation put too much focus on the culture(s) of the poor Whereas Lewis felt that adaptations made in response to sustained disadvantage can become a permanent characteristic of the culture, critics maintained that attention should be on the forces that create poverty and not on the cultural responses to poverty. They argued that the culture of poverty argument resulted in blaming the victims for their own poverty. They also argued that white, middle-class norms and values are too often imposed on minority families and communities.

William Julius Wilson's arguments (1987, 1996), which we have discussed in several parts of this chapter, attempted to revitalize and recast discussion. of culture in the context of urban poverty. Wilson criticized Lewis for viewing cultural adaptation as a permanent cultural adjustment—he clearly rejected the culture of poverty argument. Instead, he argued that structural disadvantage stemming from economic restructuring created an environment in which counterproductive adaptive responses emerged. But, these responses were contingent on the ongoing presence of the structura, disadvantages? In contrast to Lewis, Wilson held that if Individuals, families, and communities were relocated or otherwise reserved of their structural constraints, the adaptive cultural responses would adjust to the new setting. In other words the "problematic" cultural responses were situational and were not passed intergenerationally

Wilson's views were consistent with the relocation remedy put into play in the Gautreaux experiment discussed earlier, in that both concluded that changing geographic context affects behaviors that were too rigidly assumed to be permanent. People are smarter than often assumed: they can and do adjust their behavior to fit with their current circumstances. Wilson's arguments are problematic in many ways, including his continuing use of presumptive white, middle-class norms as the standard against which culture is measured. Nonetheless, his arguments were highly misrepresented and for many urban geographers have come to represent (we feel unfairly) an inherently and unavoidably flawed way of viewing urban poverty.

RESPONDING TO URBAN POVERTY

In this last section we turn to policy. Given the highly controversial nature of the issues we discuss throughout the chapter, it is not surprising that government attempts to respond to poverty are also controversia. and often divisive. Before you proceed to this account of antipoverty policies that affect cities, recall that for decades the government has attempted to do something about poverty. As far back as the 1930s, the federal government instituted wide ranging programs to address crushing poverty in the wake of the Depression's economic catastrophe. Below, we discuss selected policy efforts directed, at least partrally, at alleviating urban poverty. The major trend that we observe is toward reduced direct government responsibility for social problems and increased government financial investment directed towards benefiting business.

War on Poverty

In the midst of the unprecedented prosperity of the post-World War II decades, poverty did not generally enter into public awareness. Nevertheless in the midst of this prosperity, however invisibly, poverty persisted in the United States. In 1962 Michael Harrangton published The Other America, a highly influential expose of poverty in the United States that draw public attention to-and raised moral outrage against-the continued existence of poverty among the elderly, small farmers, racial minorities (increasingly moving to the cities), and the rural poor in Appa, achia. At the same time, social scientists were asserting growing confidence in their ability to understand and counteract complex social problems. One prestigious report claimed in 1962 "the elimination of poverty is well within the means of the federal, state, and local governments" (cited in Galster, 1996. p. 41). "This hubris of the feasible conjoured with the morality of the desirable of we were capable of elimmating poverty, it was unconscionable not to do so" (Galster, 1996, p. 41).

Confident in the potential of federal governmental action to correct the remaining deficiencies of the market economy, President Lyndon Johnson declared a War on Poverty in 1964, heady with optimism and wide in scope. This rested on three principles. (1) stimulate macroeconomic growth (to improve demand for low-skalled abor—"a rising tide lifts all boats"), (2) improve individuals' work related skills, and (3) counter discriminatory or unresponsive social institutions. Several well-known programs began or were expanded as part of this federal effort to combat poverty. Head Start, Job Corps, Upward Bound, Food Stamps, and so forth. Note that most of these efforts were designed to address what were perceived to be root causes of poverty, including inadequate education and job skills.

Many of the efforts of the War on Poverty though not initially as apparent to the public, involved direct transfers of federal montes to select groups. Federal government expenditure on so-called "transfer programs" in 1965 constituted 10.5 percent of gross national product and rose to 16 percent by 1974. The impacts of transfer program expenditures, in one simple way, are quite profound. In 1965, 33 percent of the pretransfer poor were pulled above the poverty the by federal cash transfers alone. By 1974, 44 percent were pulled above the poverty line by federal cash transfers, and an additional 16 percent by m-kind transfers (noncash benefits like food stamps) or subsidized medical care). Note, however, that most federal antipoverty spending was directed towards. the elderly, especially through the Social Security and Medicare programs. Not surprisingly, the great est reductions in poverty that we just mentioned were among the elderly

Important components of the War on Poverty focused on cities and urban poverty. The Community Action Program attempted to organize poor reside us of poor neighborhoods to lobby for and define the nature of the government services they desired Later, there were attempts to bring together and focus the various and sometimes-conflicted elements of the broader War on Poverty efforts on specific poor neighborhoods. This Model Cities program (created by the 1966 Demonstration Cities Act) argued that federal investment should focus on just a few neighborhoods with significant demonstration potential. By concentrating massive federal

investment in just a few places, this program would demonstrate to the nation, and the world, how government efforts could truly remedy the problems related to urban poverty

Un'ortunately, the same political process that created the Model Cities program also dismatically modified the program so that it was never implemented in its intended form. In order to gain political support for the demonstration project, the total amount of money spent had to be scaled back and distributed more broadly (each city and each neighborhood wanted a piece of the government largesse). Elected representatives wanted to ensure that the benefits of this new federal social policy extended to cities in their jurisdictions. As a result, the massive concentration of federal expenditure called for by the program's architects never materialized. Instead, a bastardized and ultimately unsuccessful blend of anderfunded programs was put into place.

Retrenchment

The 1970s were a period of partial retrenchment. President Nixon adopted the political philosophy of new federalism that attempted to scale back and redirect federal involvement in the nation's cities. Some claimed that the War on Poverty had been successfully concluded (noting especially the dramatic reduction in poverty among the elder y), while others grew frustrated with the escalating costs of ant poverty programs. These groups argued that anti-poverty spending should be scaled back, if not eliminated. Others objected to what was seen as federal interference with local problems. Nixon's solution was to reduce total spending levels, and to give local governments more control over how funds were spent. For example, Nixon replaced Model Cities efforts with the Community Development Block Grant (CDBG) program. Funding levels for these grants were set by a formula that included metropolitan status and population. The grants themselves were made in response to applications from local governments. The scope of CDBG funded programs was broader than the federally funded social programs they replaced.

President Reagan's administration furthered the retrenchment from federally mitiated urban policies directed at reducing or addressing poverty Ph.losophically, Reagan favored market-based solutions over government-based efforts. Two strands of research supported this position. First, public opinion and some academic writing in the 1980s increasingly pressed individualistic explanations for poverty, arguing that the poor were poor because they weren't trying hard enough or because there was something wrong with them. It was here that the phrase underclass discussed earlier became associated with conservative politics the underclass were popularly defined as those individuals who did not participate in mainstream society in part because they engaged in problematic behavior (crime, out-of-wedlock childbearing, welfare dependency, and so forth)

Second, new arguments arose that blamed the government programs for poverty. Excessive government generosity was argued to create dependency and discourage individual instative. Aid to Families with Dependent Children (AFDC) and other "welfare" programs (what came to be the label for means-tested programs where low income was required for participation) encouraged people to behave in ways counterproductive to their rising out of poverty. Proponents of this research encouraged the government to focus on market based mechanisms and to dismantle the "entitlements" that presumably were sapping the moral fiber of urban communities.

Reagan's philosophy stressed that the proper rote of government was much more limited than was previously held, indeed, government was viewed as the problem that needed to be addressed by reducing taxes and eliminating regulations and piecemeal incentives to development. Reagan and other conservatives believed that private commerce and open markets were the best remedies for poverty and other problems. Consequently, during the 1980s funds were severely cut for many of the remaining entitlements and incentive programs.

Welfare Reform Policy efforts in the 1990s under President Clinton sought to restrict the role of the federal government. In part reflecting the political success enjoyed by Reagan, Clinton put into place major changes in the way that welfare is distributed. Focusing primarily on AFDC and other means tested entitlement programs, Clinton's reforms combined work-related requirements (all recipients have to receive work training and seek employment) with time limitations (recipients now have a maximum lifetime cap on how long they can receive benefits—five years in the first round of legislation). The number of aid recipients drawing support from the states decreased dramatically, with many recipients moving off the welfare rolls and into jobs

At first glance, then, welfare reform would seem to be a success. The reality, however, is more complex. Significantly, at the time these reforms were implemented, the nation was experiencing dramatic economic growth and extreme labor shortages. It is not too surprising, then, that the new requirements that forced recipients to find work were not too difficult to meet. Moreover, most of the jobs that recipients went into were low-skill, low-paying jobs with few benefits.

Enterprise Zones One theme that has characterized the debate over poverty from the beginning is the need for enhanced labor demand. Even the architects of the War on Poverty recognized that additional job training would have little benefit if there were no jobs for workers to move into. Interestingly, efforts have been made throughout the last 40 years to stimulate economic development, and thus increase demand for labor, within poverty areas. These efforts began with the Economic Development Act of 1965 that created the Economic Development Administration (EDA). Investment capital was made available to businesses at attractive rates along with grants to improve infrastructure.

During the 1980s Reagan attempted to increase the demand for labor by reducing or eliminating what he considered to be obstructions to free market activity that the federal government had put into place. He called for the creation of enterprise zones where businesses could flourish. These zones would reduce or eliminate burdensome corporate taxes (especially capital gains taxes) and regulatory obstacles

ancluding those that protected environmental quality and labor rights). Limited incentives in the form of tax credits would be provided for investment in plants and equipment. Although Reagan's efforts to institute enterprise zones at the federal level failed, several states created enterprise zones of their own Empirical evidence concerning the success of these zones has been mixed.

Empowerment zones were instituted under Clinion in the early 1990s and are similar to Reagan's proposed zones, except that they stress wage incentives over capital investments and are accompanied by stronger links to community organizations. In addition, the Clinton administration instituted community development banks to encourage private investment in inner-city areas. During the late 1990s and early 2000s, public participation GIS (PPGIS) became more popular as a strategy to empower local community groups (Box 9.4).

Moving to Opportunity/HOPE VI/Homeownership One last area of neoliberalism that we want to discuss returns us to the links between public housing and concentrated poverty. Encouraged by the success of the Gautreaux experiment in Chicago, the federal Moving to Opportunity MTO) program. represented an expanded effort to enable residents of public housing to relocate to better neighborhoods. This would be accomplished by subsidizing housing vouchers that residents would use to find housing in any neighborhood they wanted Briggs, Popkin, and Goering (2010) summarized a decade of research on participants in the MTO program. They found that, overall, improvements to the lives of families that moved out of the worst public housing projects were less consistent than program designers had hoped for on the basis of the Gautreaux research, especially in terms of educational outcomes and employment. MTO movers d.d, however, feel safer and expressed more satisfaction with their neighborhood and housing quality. Interestingly, they found a gendered difference in the outcomes, where girls realized a more consistent benefit from relocating

For mothers and garls, at least, resocating through MTO meant moving to security. It brought

freedom from fear—for mothers, the fear that their girls would become "fast," or be harassed and preyed on, especially by older men and boys, and for girls, the fear of being pressured for sex. harassed, or victimized. Mothers are less stressed and anxious. Girls have seen improvements in mental health, too, as well as risky behavior... Some MTO parents did not realize how much the constant fear was affecting their lives until they moved to a place where they felt truly safe. On this front, MTO has been enormously successful, with the main caveat being that many families struggled to stay out of high risk neighborhoods after initially escaping them. (Briggs, Popkin, and Goering, 20.0, pp. 107–108).

Boys, on the other hand faced more overt and implicit bost lity in their new low-poverty neighborhoods and had difficulty making friends. They also had fewer restrictions placed on their insupervised activities and often chose to travel back to their old neighborhoods to hang out with friends or family members. For all MTO families, there was a surprisingly high me dence of moving back to the old neighborhood because of financial troubles, difficulties coordinating the more challenging tasks of getting to work and maintaining valued social connections that remained in previous neighborhoods

The HOPE VI program recognized the ongoing problems with public housing, associated in part with design flaws and in past with the impact of pubhe housing on concentrating poverty and mereasing segregation. It provides federal dollars to local public housing authorities to redevelop public housing. Many of the densest projects have been torn down and replaced with mixed income housing or have undergone extensive upgrading (Figure 9.11). These efforts are designed to reduce the physical and social isolation that had attended conventional public housing in previous decades. Considerable controversy surrounds these efforts, however, because the total mimber of units made available to low-income. residents is being reduced and because the redevelopment process itself causes considerable disruption during the period of redevelopment

BOX 9.4 TECHNOLOGY AND URBAN GEOGRAPHY

PUBLIC PARTICIPATION GIS (PPGIS)

Seen optimistically, Public Participation GIS (PPGIS, or sometimes Participatory GIS, PGIS, or P-GIS) promises to empower disadvantaged groups by putting in their bands. the ability to produce and deploy geographic knowledge(s). contained within and enabled by GIS. Communities can also actively participate or forming this knowledge and thus increase their influence in participatory governance. Some critics claim that GIS can disempower or marginalize. disadvantaged groups because of high cost and complexity of the hardware and software required, and problems with gaining access to data. Sarah Elwood (2002, Elwood) and Ghose 2001. Elwood and Leitner 2003) has studied the use of GIS by community groups, trying to understand the extent to which, and the conditions under which community groups are empowered by access to and use of GIS. She notes that empowerment can be conceptualized in three ways, distributive empowerment, procedural empowerment, and capacity building.

One of Elwood's (2002) case study organizations is the Powderfrom Park Pengalouthood Association (PPRA), located in a declining area of south-central Minneapolis. PPNA has been working toward neighborhood revitalization since the 1970s Beginning in the early 1990s PPNA invested in the development and use of a neighborhood housing database—a GIS (Table B9.2). The initial intention was for the GIS to be accessible by the public. Though the complexity of the system means that stuff members with GIS training do most of the analysis and mapping, community residents specify and use the information produced. Elwood found that PPNA a use of GIS both empowers and discorpowers social groups, though at different scales

of interaction and for different groups. The PPNA was most positively empowered in its relationship with the local stace.

Table B9.2 Elements of a PPGIS Database
Used by the Powderhorn Park Neighborhood
Association PPNA)
in Minneapolis

Property	Im of ed Individuals ^b	Activities/ Problems
Lot Size ^a /on ug* Property ID # Age of structure* Condition code ^a	Owner/taxpayers Renta teense holders Caretoker/manager Bluck teader Tenants	Past problems PPNA actions Staff/resident observations
Lega description ^a Tenure status ^a Tax delinquent status ^a Sales history		

Source: Elwood, Sarah, 2002

Goetz (2013) examined the implications of HOPE VI redevelopment, along with other efforts to demolish the high-density public housing built in the early post-World War II decades. He notes that places benefit, but that residents do not. When large public housing developments are eliminated, very few original residents ever return—in part because the

mixed-income design of most of the replacement developments. The site benefits because it is made available to pointical leaders and local developers for new design and construction. Very often, the design of the new development fits seamlessly with neotiberal and New Urbanist visions of multiuse, mixed-income projects that seek to increase density

^{*}Attributes for which data are obtained from local government sources and are maintained for all neighburhood properties. All other information is locally collected and is known for some, but not all, properties in the neighborhood.

^bContact information (Name, Address & Telephone number), involvement in PPNA and volunteer study are recorded for all individuals adentified in the database.

^{*}Individuals for whom contact information is obtained from focal government sources and is maintained for all neighborhood properties.





Figure 9.11 HOPE VI Public Housing Redeve opment in Atlanta (a) East Lake Meadows is tora down and replaced with a mixed-mixome project, (b) The Villages at East Lake

at the core of cities—government facilitated genn fication. Area around the redevelopment sites benefit as well, seeing increases in property values and decreases in crime. Residents do not fare as well, however. Very few displaced residents were able to participate in the MTO program, which, as noted above, had only limited benefits. Most other residents simply moved to another extreme-poverty neighborhood characterized by racial segregation and deep anequality.

Most recently, the federal government is attempting to promote home ownership through the auspices of HUD's oversight of the government sponsored enterprises (GSEs, see Chapter 8) Fannie Mae and Freddie Mae. By relaxing the income and debt requirements associated with long-term mortgage lending, home ownership is being made available to low- and moderate-income households that formerly could not afford to purchase housing. By increasing home ownership, the federal government hopes to attach more people to the wealth escalator of home value appreciation while reducing the demand on the rental stock and alleviating some of the problems of affordable housing. As we discuss an Chapter 8,

however, there is increasing evidence that the lending market practices that were implemented to increase home ownership among low- and moderate-income households are now growing burdensome and leading many households into forectosure and bankruptcy

WRAPPING UP

This chapter has addressed two orban usues that typically stimulate considerable debate race and poverty. These issues are too often addressed as if they are a single issue: race and poverty have been conjoined in popular discussion, research, and policy debate. In part our hope has been to disantangle these issues—to show that race and poverty are not the same thing. Not all blacks are poor and not all of the poor are black. As we mention, most of the urban poor are, in fact, not black. Moreover, blacks living in cities are present in all strate of society. Issues of racial segregation go beyond issues of poverty—and issues of poverty go beyond issues of racial segregation.

Although there have been several efforts to address the confluence of these two issues (i.e.,

black urban poverty), the debates surrounding these issues are too limited, especially the debate over the presence and size of an urban underclass. Even if we put aside the highly problemate behavioral dimensions of efforts to define and count the underclass, the best empirical estimates suggest that the size of such a group is almost trivially small and experienced a significant reduction during the 1990s (Jargowsky and Yang, 2006). In the coming years, it appears that issues of urban poverty will focus on (a) the concentration of poverty in the older

macr-ring suburbs and (b) the increasing presence of foreign-born and nonwhite/nonblack minorities in areas of concentrated poverty.

As you think about cities and these two issues, recognize that the most productive approaches will treat them separately the causes and outcomes of segregation are not the same as the causes and outcomes of concentrated urban poverty. They are not unrelated, but they are also not indelibly linked. Keep an open mind, and ask critical questions.

IMMIGRATION, ETHNICITY, AND URBANISM

Have we not reason to believe that while popers is using ground in Europe, this land presents to the Pope a fine field of operations and that he is now rending out his minions to accomplish his fiend-like purpose, to prepare the way before kint that he may

make a grand and triumphant entry into this country when he shall be harled from his tyrannous & polluted throne in Europe

-Type at Newspaper Editorial from the 1856s.

From their earliest inception, cities have attracted people from the outside. They have been viewed as centers of opportunity, of freedom, of culture, of ambition. The growth of cities has been driven by people moving into the city, rather than through natural increase alone. Rural-to-urban migration caused nineteenth, and twentieth-century American cities to swell, as discussed in Chapters 2, 3, and 9. But daring this period the United States also grew, thanks to immigrants from around the world. Many of these folks eventually made their way into U.S. cities. Today we see this as a blessing, but as the quote above shows, urban immigration was not always viewed this way.

Throughout the history of the United States, Americans have had to come to grips with ever-more culturally distinct arrivals, many have anguished over the perceived threat of immigration to American culture and its impact on the livelihoods of those already here. When the United States was founded, it was composed principally of men and women descended from the peoples of northwestern Europe England, Scotland, Protestant Northern Ireland, along with some from Germany mainly settling in Pennsylvania) and Holland (New York and New Jersey). Bordering the new country—to the north in Quebec and along the Mississippi—was a substantial French contingent. Sprinkled along the Florida and

Pacific coasts as well as within the southwestern regions were several Spanish missions and other outposts. Afterican Indian tribal lands straddled the ever-expanding frontiers of white settlement, And, of course, there were the peoples brought to participate involuntarily in the new country. Africans—some free but most slaves—comprised nearly 20 percent of the early U.S. population. Most lived within the rural South.

With the exception of the African American and Native American populations, the United States during its first 50 years of existence was mainly a homogeneous, white, Anglo-Saxon, Protestant (WASP) society. The nation had been founded on the principle that there was to be no established church and that all men were endowed with certain rights (ignoring the female half of the population). At the same ime, it would be fair to say that "America" considered itself to be a rural. Protestant nation Ninety-five percent of Americans lived in villages and on farms. Someone looking for a Catholic or Eastern Orthodox church, a Jewish synagogue, or a Muslim mosque would have been sorely disappointed. Such institutions—when they existed at all—were found only in the largest cities. Although to our modern eyes, even the cities would appear homogeneous, cities were looked on with suspicion because

they threatened the established order Although it had rebelled politically against its mother country. the United States was clearly and forcefully a cultural extension of Britain

Around 1820 this population pattern began to change. Until the government passed laws severely restricting ammigration in the 1920s, up to 45 million. people would arrive in the country, from ever-more distant lands. After a brief heatus, mass (mmigration to the United States resumed in the 1960s and continues to this day. In 2012, the Office of Immigration Statistics (the agency responsible for tracking the volume of immigration) reported an annual influx of 1,031,631 legal immigrants. The number of emigrants is much harder to determine; the government ast estimated about 311 000 emigrants in 2000 (data from Yearbook of Immigration Statistics, 2012 and Estimates, Fliscal Year 2000). Immigrants are individuals who are entitled to live and work permanently in the United States, and are distinguished from tourists, students, tempomery workers, and business visitors. Emigrants are individuals who live and work in some other country, although they often retain American citizenship. In addition, data from the Pew Hispanic Center estimates. that about 11,000,000 individuals remain in the United States illegally So-called "idegal immigrants" are foreigners who have no visa and are therefore defined as undocumented migrants. These undocumented migrants add substantially to U.S. population growth and account for 1 in 30 Americans. The presence of illegal or undocumented aliens on American soil has spurred a number of competing proposals. Some have called for greater restrictions and enforcement to curb the numbers of Alegal immigrants, including construction of a fence across the U.S.-Mexican border. Others have called for some amnesty provisions to allow people who are now in the United States an opportunity to acquire legal residency

Immigration is the most dramatic step in the various stages of mobility. Each year, one out of every seven Americans changes residences. The action of moving within the same region is called intraurban mobility. People are also likely to move across larger distances, from one state to another, or from one part of a state to another part. This is called internal migration Immigration and emigration, known collectively as international migration, result from a move across international borders and are relatively rare.

Worldwide about 175 million people, out of a total of 6.5 billion, live outside their country of ongar. This is just a little over 2,5 percent. Immigration can be viewed as a product of both (1) push forces, that is, those factors that cause a person to want to leave his homeland, and (2) pull forces, those factors that entice a person to move to a particular place. Many international migrants move voluntarily They make a calculation as to the benefits of making such a dramatic move and usually have a destination in mind However, a large number of international migrants are refugers who leave a country because they would be killed or imprisoned if they did not. They are pushed out of their homelands and gener ally have little choice as to where they end up. Such migrants often languish in refugee camps for years at a time. Significantly, most international migration occurs within less-developed regions, rather than from poor to rich countries

This chapter presents an overview of immigration and its effect on cities. We begin by examining the great era of overseas European immigration. which lasted from the early nineteenth century untithe early twentieth century. In sheer numbers, this had the largest impact on American society and was augmented by the increasing urbanization of American afe. We then look at the newes, wave of immigration, which has played such a large role in reshaping our modern cities. Finally, we examine America's new ethnic patterns in light of location. Ethnic groups in the contemporary United States come from all over the world. They confront new challenges, but many have also made the most of the opportunities found in American cities and sabarbs

THE ERA OF IMMIGRATION AND L.S. URBANIZATION

Between 1820 and 1925, at least 33 million people and perhaps as many as 45 million people entered the United States (Figure 101), The bulk of these ammigrants came in the last 40 years of that period. More than I million individuals arrived in six of the first fourteen years of the twentieth century during the other eight years more than 800,000 arrived. A.

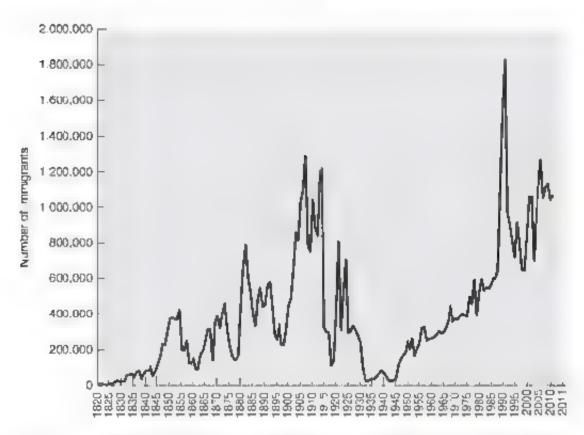


Figure 10.1 Number of immigrants to the United States by year, 1821–2011. Immigration has proceeded in a series of waves. Today, there are more immigrants than ever be one. © John Whey & Sons, as

told, more than 13 million people arrived during this. entical period. When considered as absolute numbers, these figures exceed the immigration we have today. More significantly, they occurred when the J.S. population was about one-third of today's: 76 million in 1900 and 92 million in 1910. The impact was such that the foreign born population in 1910. accounsed for about one out of seven Americans, one out of four working Americans, and one out of two Americans working in the key industries of steel, mining, and meatpacking. Many female immugrants worked in the garment and food processing industries. The impact on cities was even more astounding, in some of the nation's largest cines—New York, Chicago, Detroit—immigrants comprised a majority al the labor force.

It is easier to think about immigration as occurring in waves. The immigration that look place before 1820, when no records were kept, continued the British cultural domination. Between 1825 and 1880. immigrants came from more diverse areas in northern and western Europe. Historians term this the old wave of immigrants. Between 1880 and 1925, immigrants increasingly came from other parts of Europe, as well as from French Canada, and even some from China and Japan (See Box 10.1). Historians term this the new wave. Each of these groups encountered different experiences and different receptions from the native-born population and tended to have different settlement histories. These differences persist today, in the ethnic complexion of separate parts of the United States and in the differences among urban, small town, and rura. America.

The New Catholic Arrivals

During the period between 1820 and 1880, the British Isles continued to be the primary source of immigration, with Germany running a close second. Other areas, such as France. Scandinavia, and even Canada (some immigrants used Canada as a way station en

BOX 10.1—SURANGERS FROM A DIFFERENT SHORE. CHINESE AND JAPANESE MIGRATION TO THE UNITED STATES

Adhough the majority of immigrants arrived in East Coast ports such as New York, Boston, and Philade plug, San-Francisco was also a significant port of entry. The last halfof the nineteenth century witnessed magration from China and Japan. Beginning in 1850, Chinese nugrants left a land. of economic poverty and political chaos to try their lick in a land they called "Gum Shan" or "Mountain of Gold." They arrived on clipper ships-often debenturing themselves to pay the fare-and on arrival they mok whatever low-level jobs were available to them personal services such as doing laundry, cooking, and serving, as well as railroad construction, mining, agricultural work, and some factory work. By .890 there were about 110,000 Chinese in the United States, nearly all of them within the western states. That population was made up of men supporting families in China through remittances. Chinese laborers often treated their stay as a sojourn and had no plans to bring over their families. Many of the Chinese lived in small mining towns, laboring and performing services for the local population, but many also clustered in a few square blocks. in distinct "Chinagowns" in San Francisco, Figure B10.1... Los Angeles. Vancouvez, and after a time in New York. City By the early twentieth century, the Chinese population. remained concentrated in the West, but it was also found in other sections. It also became almost exclusively urban, the

Chinese are now the most urbanized ethnic group in the United States The Chanese were probably treated worse than any other

ethnic group, with the exception of African Americanand American Indians. They were confronted with viruent racism that viewed them as deprayed, disease ridden, op am-add eteo heathens. Because they were unwelcome, the Chinese were forced to stick together as a defense mechanism. As a result, they were accused of clana shoess. These attitudes led to a series of immigration restrictions. Chinese women were excluded in 1875. Then in 1882, Congress passed a more general Chinese Exclusion Act, which restricted immigration to only a few majes. Only inthe 1940s was a more normal stream of Chinese immigration allowed

Along with the Chmese, lapanese settlers began coming over to the United States in the late nineteenth century. Until the 1860s, the Japanese government maintained a closed-door poncy toward the outside world: only during the Merr Restoration was Japan opened up and emigration allowed to proceed. Most immigration to the United States occurred from the 1890s up antal the period before World War I. With the need for labor in the western United States, many large U.S. companies actively recrusted Japanese laborers. Japanese immigrants also flocked to work on plantations in Hawaii, both before

rotate to the United States), each sent less than half a million people. Scandinavians, although they arrived mainly after 1880, are usually considered to be part of the old wave of immigration. In many respects, these arrivals helped to reinforce population patterns that already existed, adding to the considerable stock. of English and Scots-Irish, while bolstering existing populations of Germans. Note, however, that the proportional volume of immigration during this period was larger than at any other time during U.S. history In the peak decade of the 1850s, the number of immigrouts exceeded .2 percent of the existing American population. Even small changes in the composition of the population carried dramatic consequences for America's cities.

This immigration introduced several new elements. The large-scale German immigration brough. people who spoke no English and who would often retain their native language. German continued to be used in Wisconsin parochial schools and parishes until World War L The old wave of immigration also brought for the first time an enormous number of Catholics. The German immigrant population included many Catholic adherents. The Irish population, from the south this time, was overwhelmingly Catholic As a result. Catholics went from less than percent of the total U.S. population in 1790 to about 7.5 percent in 1850.

Geography of Immigration A particular geography of immigration surfaced at this time because mrangrants were likely to favor certain parts of the country over others. The large majority of immigrants disembarked in the port of New York, New



Figure B10.1 San Francisco Chinatown, around 1920

and after it became an American territory. In general apanese minigrants were for more agriculturally oriented than the Chinese. Many worked on farms and over time saved up enough money to boy their own land.

Activides toward the Japanese do not appear to have been as hostile as those loward the Chinese. After Chinese attangration was curbed in the 1880s, Japanese immigration made up some of the stack. But the Japanese were also

Orleans, Boston, Ballimore, Philadelphia, and San-Francisco were distant runaers-up although each "specialized" in a particular immigrant group. This had a clear effect on regional patterns of settlement, as did the perceived economic opportunities of different regions. With the exception of New Orleans, which attracted large numbers of Irish and Germans, munugrants generally avoided the South The southern antebellum and postbellum plantation economy was unsuitable for new arrivals. The far West (especially California increasingly attracted its share of immigrants, including a sizable number of Chinese and Japanese (see Box 10.1). But it was in the Northeast and Midwest that the foreign population predominated. New York State by itself, was home to one-quarter of the total foreign born

population in 1860

discriminated against. Like the Chinese, they could not be naturalized as citizens. A Gentlemen's Agreement in 1907 curbed male labor migration, although it did allow for the families of minigrants to be brought over. Later, laws were passed in the 1920s that deprived Japanese manigrants of the right to own land, causing many to relocate in cities. And, the Japanese were singled out during World Wor'll and forced into relocation centers or interminent camps.

Foreign arrivals of this period were more likely ban native-born residents to settle in cities, and their arban orientation increased with time. Pre-Civil War immigrants encountered an agrarian society that was in the early stages of an industrial and urban revolution. The United States was still significantly behind Great Britain, which had reached a threshold of having half of its population located within cities. In .860, only about 36 percent of all foreigners lived in the largest 43 U.S. cities, and half of these resided in the six major ports of entry.

There was a great deal of opportunity within the vast, intapped hinterlands. Prior to 1890, the frontiers of the United States continued to expand. Land was widely available for those who wished it, as long as they were willing to travel long distances. The Homestead Act made land available to those who agreed.

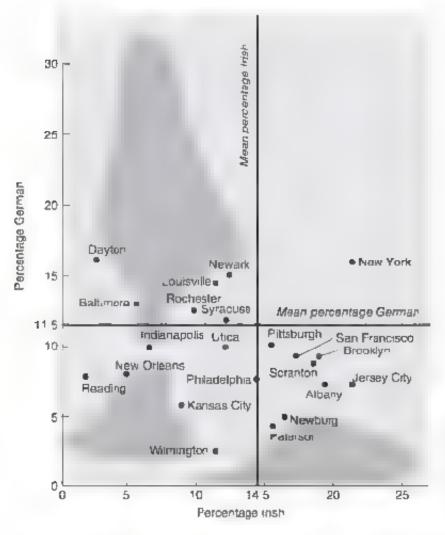


Figure 10.2 Irish and German-hom immigrant percentages of American cities in 1870. There was a strong regional distriction between cities with a high proportion of Irish and cities with a high German proportion. Source Ward, David, 1971

to settle and farm it. The railroad companies had an interest in schang vast swaths of land they had been granted by the federal government. Some Midwestern states even promoted themselves to prospective nugrants, setting up recnatment offices and running advertisements overseas. They wished to grow, and immigration was an effective strategy for promoting growth. Many such states established a patchwork of intensely ethnic enclaves throughout the countryside. Swedes and Finns among Minnesota's Iron Range, German-dominated counties in southwestern Wisconsin and in northwestern Ohio, Norwegians in north-eastern North Dakota.

Differences in Urban Orientation Urban orientation clearly varied among the major groups. Scandinavians were among the least likely to settle in cities, preferring the wide-open spaces of the upper Midwest and the upper Plains. By the late nineteenth century, only 28 percent of Scandinavians aved in cities with more than 25,000 people. The majority re-created the farms and villages of their homeland, residing in rural ethnic enclaves and showing little interest in interacting outside the group. Germans tended to divide evenly between farms and cities in the Middle Atlantic and Midwestern regions. Slightly ess than half of all Germans lived in cities with more than 25,000 inhabitants. The Insh, on the other hand, were more likely to live in small, medium, and large cities, and were more likely to concentrate within the cities of the Northeast, especially Boston.

A chart taken from geographer David Ward's Cities and Immigrants (1971) shows the variation in

German and Irish urban settlement patterns Figure 10,2), The chart places the 50 main American cities along a plot with the percentage of ethnic Insh increasing from left to right and the percentage of ethnic Germans increasing from bottom to top Overall, the Irish made up a larger proportion of the total urban population (14.5 percent) than did the Germans (11.5 percent). But the regional differences: are striking. Only New York City-the only city with 1 mulion people—had greater-than-average percentages of both groups. The other cities divided fairly evenly along ethnic lines. New England cities—and a few other Northeastern cities—were clearly Irish oriented. Given Pennsylvania's original attraction to German settlers in the colonial era, it is also surprising to find that Philadelphia and Pittsburgh had higher proportions of Irish. Midwestern cities as well as Baltimore, Newark, and two upstate New York cities were clearly German. Cities in the South had smaller proportions of both populations.

Reception of Immigrants Abother point of d.f. ference among the old mimigrant groups came from the reactions they encountered among existing residents. Although individual experiences differed, the Scandinavians and Germans were largely welcomed at best, or at least tolerated. Scandinavians settled in remote areas and had often been targeted by recruiters. They did little to upset the status quo. Germans had an advantage of enjoying the sympathies of articulate spokesmen, and they were well represented among the skilled workers, specializing in a variety of handerafts, brewing, and food processing. In addition, many came to the United States with some property Most animosity at the time was directed toward the insh, for several reasons. The linsh were generally impoverished. Many emigrated as a response to a series of famines that swept Ireland, so most came with almost nothing in their pockets and go skilled trades to parlay into economic success. The bulk of rish immigrants were employed in unskilled jobs and many were employed as domestic servants. As shown in Figure 10.2, the Irish tended to settle in older areas of the country, forcing them to adapt to existing social structures rather than be able to fully re-create their own societies. There was no opportunity for such immigrants to solate hemse ves-

Finally, the Irish were Catholic Unlike Germans who could be either Catholic or Protestant, Catholicism was clearly equated with Irish background. The Irish were also disparaged by the British upper class. whom the American upper class sought to emulate The combination of these factors led to large scale denigration, abuse, and exploitation of the Irish population. This culminated in the victous editorials (such as the one at the beginning of the chapter), nasty cartoons that east the Irish as subhuman (Figare 10.3), and discrimination. The addendum "Irish need not apply" or "None need apply but Americans" was a common part of want ack and job notices well into the twentieth century. Attempts by the lash to improve their situation through organizing, political activity, and their ascendance in the Catholic Church hierarchy only infuriated "notive" Americans.

Segregation Patterns Despite the cultural difference of these European ethnic groups, there was little in the way of true residential segregation as we understand it today. In Latin, segregation means literally "to separate from the flock." In common usage, segregation refers to the geographical separation of people on the basis of ethnicity or race. Residential segregation in this case would entail the separation of people's residences. Other types of segregation can and do exist: segregation of businesses, segregation of schools, segregation by activity

Within the countryside, segregation did occur as entire villages were populated by particular ethnic groups. But the city was something else entirely, here the Irish. German, and other mid-nuneteenth century immigrant groups were more residentially mixed. The absence of residential segregation was due largely to the nature of the urban form prior to the American Civi. War. Most cities were small, with liftle in the way of a central business district, almost no separation of functions, and little separation by social. class. Cities were set up primarily for walking, and most people conducted their lives within a minimum. of space. Rich and poor lived close together, shaning space across an alleyway often near their places of business. In this type of urban environment, even the despised Irish were scattered throughout the city as

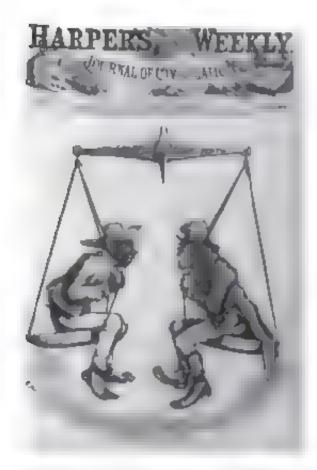


Figure 10.3 Cartoon by Thomas Nast depicting both African Americans and Insh immigrants as subhaman. Unfortunately, such sentiments were typical in the late nineteenth century. Source: Library of Congress, Prints and Photographs Devision, Harners Weekly Doc. 9, 1816. Cartoon by Thomas Nast

evidenced by the map of Boston, circa 1850, shown in Figure 10.4

The New European launigration

After 1880, the nature of American immigration changed a great deal For one thing, the overall totals increased dramatically. The steady stream of pre-1880 immigration became a flood of new arrivals as immigration doubled and then tripled. In addition, the national origins of most immigrants changed. The older immigrant populations of Germans, Irish, British, and Scandinavians continued to arrive. But they were joined by a series of peoples from southern and eastern Europe, the

so-called "new immigrants." From 1880 until 1920, the main sources of immigration were from Italy, the Russian Empire, the Austro-Hangarian Empire, Greece, and Spain. Contained within some of these imperial jurisdictions was an array of ethicities. Jewish, Ukrainian, Luthianian, Polish, Hungarian, and Serbian, to name just a few. These groups were argely non-Protestant (divided among Catholics, Jews, and Eastern Orthodox), non-English speaking, and culturally distinct from the old immigration of the late eighteenth and early inneteenth centuries

As was the case with the old immigration, the new immigrants were likely to favor particular areas of the country. If anything, the avoidance of the South was even more pronounced. With the exception of New Orleans, which attracted a fair number of Italian migrants, most newcomers came through New York and a few other eastern ports and either remained close by or traveled into the industrialized Midwest. In fact, it was the emerging industrial geography of the late nineteenth and early twentieth-century America that nost predicted where smallgrants would locate.

Urban Urientation of New Immigrants. The new wave of immigrants differed in still another way from the older wave. Whereas the first wave of immigrants had been likely to move to both cities and rural areas, this second wave settled overwhelmingly in urban areas. Even though the United States as a whole was still predominantly rural, more than 90 percent of Jews, 85 percent of Italians, and 85 percent of Poles settled in cities. As was true of the old immigrants, the new immigrants exhibited a strong predilection to settle in particular cities.

In general, we can point to three types of urban settlements that attracted imm grants.

- Ports of entry attracted immigrants without money to go any further and those who had found opportunity there. These were causes such as New York. Boston New Orleans, Physidelphup. Baltimore, and San Francisco.
- Interior cities served as major distribution and export centers, including Chicago, St. Louis, Cincinnatt, Miwaukee Cleveland, Detroit, and Akron.
- 3 Small manufacturing towns were located in New Engand and the Mid-Atlanta: region, including Lowell, Fall River, Worcester Scranton, and Toledo

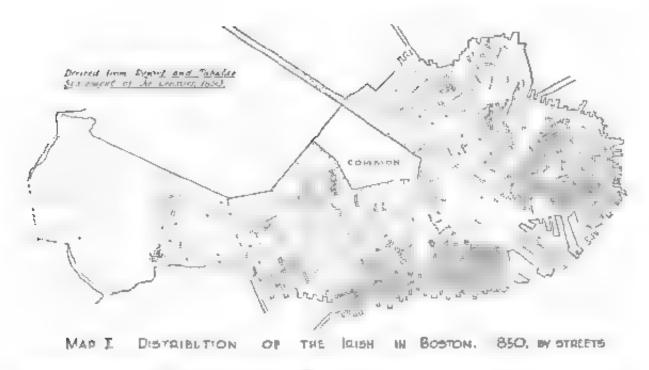


Figure 10.4 Distribution of Irish in Boston. 1850. A though the Irish population avoided certain neighborhoods they were generally dispersed throughout the city. *Source:* Authors

A result of all of this immigration and urbanization is that the foreign-born population of America's biggest cities sourced. By the last quarter of the nineteenth century, immigrants and their children accounted for more than two-thirds of the urban population in the Northeast and Midwest—the most populous and economically dynamic part of the country Even as late as 1920, half of all the urban population in the country was of foreign birth or foreign parentage.

With regard to the different ethnic groups involved, certain patterns of settlement emerged. Jews settled primarily in Mid-Atlantic states, especially in New York Italians were also found in Mid-Atlantic states, although many also located to New England Most French Canadians settled in New England, creating an extension from Quebec down through Maine, New Hampshire, Massachusetts, and into Rhode Is and Some Bohemians and other Central and Eastern Europeans went West, settling in a number of cities stretching from Ohio through Nebraska (Figure 10.5) Again, most of this settlement occurred in cities.

What accounted for the urban preferences among new immigrant settlers? Structural factors were elearly involved. By the 1880s, the frontier had effectively closed. At the same time, the manufacturing revolution was in full swing, providing great opportunities for unskilled labor. The people who arrived in the United States at this time were mostly. poor and poorly educated Well over 90 percent of "new immigrants" entered this country with less than \$50 in their pocket—not a great deal even in those days. Many new arrivals were illiterate, even in their own language. Among the arrivals, 50 percent of Lithuanians, 35 percent of Poles, 52 percent of southern Italians, and 38 percent of Russians could not read, and virtually none of the newcomers could read in English. This contrasts with the earlier wave of old immigrants, who tended to be literate and possessed some knowledge of English.

Occupationally, most of the new immigrant populations had few usable skills—more than 90



Figure 10.5. This map shows the primary togethor it several ethnic groups as o 1960. Source: Authors

percent could be classified as laborers, peasants, and servants—reducing the prospects of securing well-paying jobs in the cities. But the prospect for some type of employment was usually good, in times of economic depression, when jobs were scarce, many of the new arrivals simply turned around and went back home. About one-fourth of immigrants returned to their homeland, although many of these

were men who had always intended to remain in the United States for only a short time.

Neighborhood Locations Given these circumstances, the bulk of new immigrants located where housing was available and where it was cheapest Because the new immigrants were arriving at a time when cities were expanding and the middle class was moving into more spacious suburbs, a majority settled in inner-city neighborhoods that had been previously occupied by more established groups—an area termed the zone of transition.

The neighborhoods that the introgrants occupied were noted for their density and squalor. The demand for housing far exceeded the supply, meaning that families had to squeeze into ever-smailer spaces This did not necessarily mean that conditions were unhealthy---Russian Jews, for example, lived in extremely congested conditions but enjoyed fairly low mortality rates-but it highlighted the poverty of many arrivals. The conditions experienced by the turn-of-the-century emmigrants hornfled outside observers. Report after report testified to the substandard conditions experienced by the newest urban residents. Many commentators were indeed sympathetic to the plight of the people, Upton Sinclair's novel, The Jungle, exposed the abuse of immigrant workers and families in Chicago. Others simply reported on the conditions they saw. One such reporter was Jacob Rifs, a social reformer who fought to improve the conditions of many of New York's worst stums. His book, How the Other Helf. Lives, was published in 1890 and included text and redrawn photos chronicling the conditions of the time. Rus described cheap lodging houses, waifs, street Arabs, and tenements. A tenement of the time was described officially as a

brick building from four to six stories high on the street... four families occupy each floor, and a set of rooms consists of one or two dark closets, used as bedrooms, with a living room twelve by ten. The staircase is too often a dark well in the center of the house, and no direct through ventilation is possible, each family being separated from the other by partitions. (1890 [1971] p. 17)

Unofficially, tenements held significantly more people. As Ras exclaimed

It no longer excites even passing attention, when the sanitary police report counting 101 adults and 91 children in the Crosby Street house, one of twins, built together. The children in the other, if I am not mistaken, numbered 89, a total of 180 for two tenements! Or when a midnight inspection in Malberry Street unearths a hundred and fifty "lodgers" sleeping on fi thy floors in two buildings. (p. 17)

Conditions outside of New York were little better. One account of a Polish neighborhood in 1920. Chicago described it as 10 square blocks containing 14,000 people, making it three times more crowded than the most crowded portions of Calcutta, India. In this neighborhood, three-quarters of all apartments had less than 400 square feet of space, one-hith of all people lived in basement apartments, and most of the residents had access only to outdoor plumbing. Such eyewitness occounts sparked reform legislation and gave rise to chantable institutions.

Segregation Patterns As a rule, the new immigrant populations were far more concentrated than the older groups had been. These segregation patterns largely reflected changes in the shape of the American city. As the city expanded, functional separation was accentuated. Most cities developed a central business district (detailed in Chapter 5), a factory district, and residential districts divided on the basis of class. Because newcomers occupied the worst housing, they tended to be separated from native-born and even older immigrant groups. Distinct residential quarters characterized by a particular group emerged. Little Italy, "Jewtown," and other ethnically distinct neighborhoods became fixtures of some of the largest cities. Note, however, that few neighborhoods were solely occupied by a single group, and so were not strictly consistent with the definition of a ghetto. To be sure, foreigners were segregated from the native born, but they were much less segregated from one another

Table 10.1 illustrates the tendency of foreign populations to be segregated from the native population in 1910, 1920, 1930, and 1950. The table makes use of a segregation index or index of dissimilarity as described in Chapter 9. The "new" groups, composed of Southern, Central and Eastern Europeans are clearly more segregated than the "old" groups of Germans, Irish, and Scandinavians at each point in time

Table 10.1 Segregation Indices for Old and New Immegrant Groups

	1910	1920	1910	1950
Old	20 6	23.2	14.1	25.4
New	53.3	45.8	546	49.6
Old	32.6	79 B	27.7	27.8
New	53.6	4 1	47.1	41.4
Old	2.6	2.1	29 1	28.4
New	57.8	47.7	53.0	48.0
	New Old New Old	Old 20 6 New 53 3 Old 32.6 New 53 6 Old 21 6	Old 20.6 23.2 New 53.3 45.8 Old 32.6 29.8 New 53.6 4.1 Old 21.6 21.1	Old 20.6 23.1 26.2 New 53.3 45.8 54.6 Old 32.6 29.8 27.7 New 53.6 4.1 47.1 Old 21.6 21.1 29.3

Source Lacherson Samey 1963

Negative and Positive Impacts of Location Whatever the facts of the sauation, these urban ethnic neighborhoods combined in the American imagination. Many native-born Americans feared that immigrant groups, concentrated in cities, were undermining American culture. Many Americans were wary of cities in the first place, but a city filled with foreigners was considered to be especially dangerous. The congested conditions of cities along with the high percentages of aliens appeared to many people to be a social tinuerbox, waiting to ignite into nots and anarchy

Nevertheless, these initial locations had a number of positive aspects. The first was one of cultural expediency. Immigrant ghetios were destinations that attracted family and friends from the old country Neighborhoods furnished newcomers with a steppingstone into mainstream society. People were not forced to confront an unfama, ar and sometimes hostile environment. Many of the early imm grant neighborhoods were also fairly insular. The language of the streets was the immigrant language (in fact, in some parts it was virtually impossible to get around in English) Beyondthus, a host of institutions developed to help the immigrants: churches and synagogues, welfare mst tutions, meeting houses, and businesses. All of these allowed for the creation of a "society within a society."

Economically, these immigrant neighborhoods were also close to available employment. Although the middle class had moved out, most of the major industries, warehouses, and services remained

near the center of the city. Many immugrants were attracted to available cheap housing located close by the manufacturing jobs. A central location also made it easier for unskilled laborers to find other jobs when they were laid off. Many such jobs required little in the way of skills and were distasteful to most native white Americans. Unemployment was therefore not nearly as large a problem as exploitation.

These particular advantages of cultural expediency and proximity to available employment eventually provided a springhoard into mainstream society, propeding many immigrants upward and outward. By and large, immigrant communities were short term phenomena that dissipated once large numbers of the ethnic residents-and especially the children of mmigrants-made enough money to move into better housing further outside the city. After World War-II. many of these neighborhoods began to diminish. The inhabitants either died or became successful and eft. Some ethnic ne abborhoods survived into the 1940s and 1950s, becoming subjects of such studes as Street Corner Society and The Urban Viliagers, but by the 1960s and 1970s, most had become relics. Newer populations had moved in or the neighborhoods were torn down in the name of urban renewal.

The loss of these distinct neighborhoods and the dispersal of second- and thurd-generation groups throughout the cities and metropolican areas marked the long erosion of economic and social barners between ethnics and native-born Anglo-Americans. This process is assimilation. Social scientists use the term to describe the process whereby an ethnic group becomes more similar (in culture, in employment, in attitudes) to the dom nant group. Although cultural distinctiveness still remains, as manifested by religious devotion, political attitudes, and especially ethnic pride, over the course of the twentieth century the massive European immigrant stock was incorporated into the American culture. Those who had once been reviled and scorned became a part of the establishment.

The Ethnic Kaleidoscope of Today

From World War I through the 1960s, immigration rates declined significantly. A great deal of this had to do with structura, and external conditions. Two world wars, a global economic depression, and the desire of several oppressive governments after World War II to keep their subjects locked in reduced the number of potential migrants, although these forces did lead to several waves of refugees.

Immigration Legislation in addition to the causes listed above, the nation itself undertook several successful efforts to limit immigration through immigration legislation. By the 1920s, American attitudes toward immigration had become inconsistent. On the one hand, there was pride in American diversity Abie's Irish Rose-a story about the marnage of a Jewish man and an Irish woman-ran for seven years on Broadway. Al Smith became the first Catholic to receive a major party nonunation for president in 1928, although he lost the election decisively. On the other hand, more determined voices heeded the statements of President Calvin Coo..dge that blological laws tell us that certain divergent people will not mix or blend" (Barkan, 1996, p 12) and that "America must be kept American" Barkan, 1996, p. 2). Later on, President Herbert Hoover would complain to New York Congressman Frorella LaGuardia that "Itahans are predominantly. our murderers and bootleggers...foreign spawn, who do not appreciate this country" (Martin, 2004) p. 76). In 1924, Congress passed restrictive legislanon that used national origin quotas that effectively cut off most overseas immigration. This legislation imposed a ceiling of only 154,000 immigrants a year, with almost three-quarters of legal entries designated for people from Great Britain, Germany, and freaind. Earlier acts had eliminated Asian immigration, made it more difficult for certain people to obtain citizenship, and even stripped citizenship from some. The stringency of these restrictions became especially poignant as hundreds of thousands of refugees from Nazi Germany were denied entry to the United States, only to be returned to their doom.

These restrictions largely held until the 1960s. They led to a steady decline in the foreign-born population that would not be reversed until some 70 years later. They also left a substantial void in the mass migration to U.S. cities—filled in part by the migration of American blacks from the South

In 965 immigration aws changed dramatically Congress passed a law aboushing the discriminatory national origin quotas of the 1924 act and replaced them with a series of preferences. Parents, spouses, and minor children of immigrants already in the country were exempted from the overall quota By 1997, these groups comprised about 40 percent of the total legal immigration. This was followed by preferences for other family members, professionals, skuled workers, and refugees. Each country was expected to contribute no more than 20,000 immigrants a year (although initially inhabitants of the Americas were considered outside the quotathis was changed in 1976). Although the overall cerling was not raised substantially at first, this law expanded both the numbers and the diversity of imm: grants

Immigrant Patterns Figures from the 1960s through 2005 show how the 1965 law and subsequent laws dramatically reshaped American immigration (Figure 10.6). To begin with, the overall volume of immigration has continued to increase. On average, 320,000 immigrants a year came to the United States in the 1960s, 430,000 in the 1970s, 630,000 in the .980s, 978 000 in the 1990s, and 958,000 in the first years of the twenty-first century. In fact, by the first decade of the twenty first century, munigration volumes finally attained the level of the first decade of the (wentieth century, albeit within a much larger national population. In addition, the destinations favored by immigrants have changed a great deal. At the beginning of the twentieth century New York City was the preferred desunation followed by several important cities in the Northeast and Midwest Chicago, Philadelphia, Boston, Cleveland, and Detroit, By the end of the century, New York continued to be the number one destination, but it was now followed closely by Los Angeles and a host

	1820-1860	1881-1920	1921-1960	1961-2004
Germany	3.052 126	2.443,565	1 230,603	511,300
reland	2,829,206	1.529.144	290 356	138 872
JK	1 949,258	1 946,253	713,272	728.450
tally	81,277	4,114,603	766.495	484.068
Austria-Hungary	80.789	3.988,034	207 044	104.015
Soviet Union	43.170	3,237.079	64 354	742 749
Other Europe	953.449	3.410.085	1 485,508	1 924.172
Canada	654 660	1 318 026	1 582 712	1.028.666
Mexico	25.119	271 530	842 006	5 710,305
Caribbean	03 490	283.080	203,217	3 402,928
Central America	1 220	26.304	B8.046	1.484,290
South America	8.726	62 558	163,477	1,820,195
China	228,845	118,393	81,201	1 115,083
ndia	359	7,132	6,115	1.050,576
Philippines			24,528	1 703 506
Kores	_	_	6,338	871,741
Vietnam			335	862,494
Other Asia	1 385	590 058	220.415	3 161,212
Africa & Oceania	12 333	80 008	68 291	1.049,293
		Eu	оре	4 633.626
			mada.	1 028.668
			tin America	12 417 718
		As		8 764 614
		Afi	nca/Oceania	1.049,293

Figure 10.6 Changing composition of immigration, by nationality. Before 1880, most immigrants were from northern and western European countries. Between 1881 and 920, most immigrants came from countries in southern and eastern Europe. Since 1960. Latin America and Asia have been the principal places of trigon. Source: Martin, Philip and Midgley, Eurapeth, 1994.

of Sunbel cities. The geographic pattern shows that the northeast comdor, parts of the south, and the west coast displayed the highest volume of immigrants between 2000 and 20.0 (Figure 10.7). Except for Chicago and Manneapolis, many Midwestern cities are no longer an attractive destination

Recent imm gration data indicate that Maint is east y the top immigrant destination, in proportion to its population, with Fort Landerdale also popular. They are followed by Jersey City, New York City, and Bergen County in northeastern New Jersey—all three within the New York greater metropolitan area. Several West Coast metropolitan areas—San Francisco. San Jose, Los Angeles, Oakland, Salinas, and Orange County—are highly popular as well. Other immigrant destinations are Seattle, Texas metropolitan areas like El Paso and Houston, and Boston.

Among the least popular destinations are cities in the Midwest, Mountain West, and South. Many of these cities are major magnets for domestic ingration—Phoenix, Denver, Atlanta, Austin—but are ess likely to experience immigration. The demographer William Frey (1998) has suggested that the immigration to a city may be inversely related to domestic migration, as natives seek to escape the diversity and move to more homogeneous metros. Recently, new patterns of immigration show an increase in Latinos and Asians in smaller cities, such as Raleigh-Durham, North Carolina, and Holyoke, Massacht setts.

Finally, the complexion of American immigration has changed. Before 1965, northern and western Europeans were the dominant population, strongly favored by the preferential quotas. With the removal of these preferences, all types of nationalities were allowed to enter the United States. But rather than the southern and eastern Europeans, who had sparked the restrictions in the first place, well over 80 percent of immigrants came from Latin America and Asia. Mexico alone accounts for more than 18 percent



Figure 10.7 Increase in foreign born 2000-20 0 Immigrants tend to be initially attracted to cities along the West Coast, Northeast corridor, and in Florida and Texas. Source: Authors.

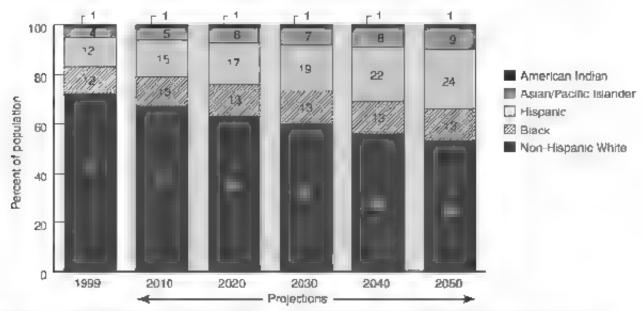
of the total. Five Asian countries—the Philippines, China, Korea, Vietnam, and India—account for another 23 percent of the legal total. When undocumented immigrants are added to the mix, the preponderance of Lahn Americans and Asians is even more accentuated

The country encountered by this newest wave of immigrants differs dramatically from the country entered by the major European immigrant groups of a century ago. Gone is the free and open land, gone also are the bustaing, industrial cities. The America of today is far less rural, far less industrial, far more suburban, and far more oriented toward the West and the South. It is also a much more prosperous place, but one where education and skills are at a premium.

The newest immigration is composed of many different groups. Arrivals come from a wider variety of places than before. They also bring tremendous differences in financial and human capital assets. For example, although ammigrants are now less likely than native born Americans to have finished high school, they are also more likely to have advanced degrees. Overarching all of this is the fact that the American economy exists more than ever within a globalized world, where labor, capital, and culture are far more integrated than ever before

The diversity in immigration and its effects on U.S. cities defy easy categorization, Immigrant groups vary greatly from one another, and there are substantial differences within groups as well. Two main umbrella populations stand out in their contributions and in the way in which they are reshaping American cities. Latinus, arriving from the Cambbean, Central America, and South America, and new Asian immigrants. Together, these two broad populations are expected to comprise one-third of the total U.S. population in 2050 (Figure 10.8).

Projected Racial and Ethnic Composition of the United States, 1999 to 2050



Source L.S. Census Bureau. 999 data accessed online at: www.census.gov/nation/e90s/e8999rmp hd on usn 22 1999: 2010 data accessed online at: www.census.gov/population/projections/nation/summary/np-t5-c.pdf on usn 22 2000-2020 data accessed online at: www.census.gov/population/projections/nation/summary/np-t5-e.pdf, on March 14 2000-2030 and 2040 data accessed online at: www.census.gov/population/projections/nation/summary/np-t5-e.pdf on March 14 2000-and 2050 data accessed online at: www.census.gov/population/projections/nation/summary/np-t5-e.pdf on March 14, 2000-

Figure 10.0 Project extractal and a line composition of the United States. 1999: 2000 During the new several decades the non-Hispanic while proportion will steam as decided while the proportion of Assans and Hispanics will increase Source. Riche, Martha F. 2000

Non-Hispanic whites—themselves becoming a more diverse population with the incorporation of many immigrants from eastern Europe and the former Soviet Union—will at that time become a bare majority as the United States completes its transformation into a majority-minority country. Box 10.2 discusses how cities in Canada are also heavily affected by immigration.

LATINO MIGRATION AND ITS IMPACT ON CITIES

In the last two decades of the twentieth century, nearly half of all immigration came from Latin America and the Cambhean. This was not a purely "Latino" migration.—Afro-Cambbean groups such as Haitians,

Jamaicans, Guyanans, and Trinidadians contributed a significant proportion—but it underscores the extent to which Spanish and Portuguese speaking imm, grants from the Western Hemisphere continue to officence American society. The result is that Latinos or Hispanics (both terms are used) surpassed African Americans in the 2000 census as the country's largest ethnic group. Even if no further immigration were to occur, the proport on of Latinos in the United States would continue to expand, because fertility rates among Latinos are the highest of all ethnic groups. But all signs point toward continued high immigration and the likelihood that Hispanics will comprise one-quarter of the overall U.S. population in 2050.

The distribution of Latinos is geographically uneven. Figure 10.9, taken from the 2010 census,

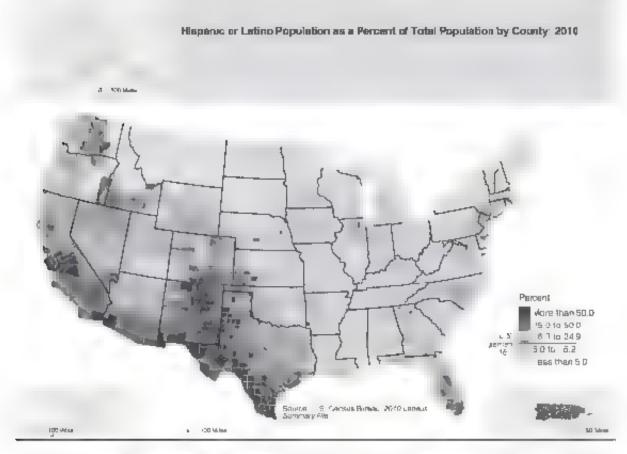


Figure 10.9 Percent of Latine linguit population by county 2010. Latinos are regionally concentrated in the southwestern claimed States, California, and south Florida. *Souther Entrys*. Sharon R. Merarys Rios Vargas, and Nora G. Albert. 2010.

shows the proportion of Latinos by county. It gives a good snapshot of where Latinos live today. There are three distinct areas of concentration.

- The largest and most visible concentration by far is a belt described by some as Mex-America that stretches from Cautomia's Central Valley and Pacific coast through the states of Arizona and New Mexico into Texas, especially along the Rio Grande. The vast majority of Hispanics within this region are of Mexican origin.
- The second region is focused with a southern Florida, with a clear focus on Miami. M ami is one of the growing number of American cities where Latinos constitute a clear plurabity of the population. The leading Hispanic group in this region is Cuban, although diversity.

- is growing within the Hispanic population as Cubans are joined by a variety of nationalities from Central and South America
- 3 The third region stretches from New Jersey to New York City and into southern New England. Unlike the other two Hispanic belts, this area as a whore cannot be sale to be dominated as much by the Latino population. Nevertheless, there are several strong concentrations within certain inner-city pockets, especially the Brunx. The leading Hispanic group in this region is Puerto Rican.

The three major Hispanic populations in the United States—Mexicans, Cubans, and Puerto R.cans—have quite distinct histories, vary in their

BOX 10.2 ETHING DIVERSITY WITHIN CANADIAN CITIES

Which city is North America can claim to be the continent's most diverse? People might consider New York or Los Angeles, but the bonor most tikely goes to Toronto. The largest city in Canada and the center of its economy. Toronto has emerged as a destination zone for millions of people from around the globe. According to the latest 2006 Canadian census, Toronto contained a higher proportion of immigrants (45.7 percent) than any metropolitan area in North America. In contrast, Mianu and Los Angeles contained 38.8 and 34.3 percent "foreign-bora" populations, respectively in 20.0. Moreover, Toronto's makeup is far more diverse than that of Caribbean dormated Mianu or

even La no-dominated Los Angeles. Toronto has a substantial immigrant population from Europe, Asia, and Latin America. As a result, the city has been transformed from a staid, somewhat stuffy, Anglophile city that shuts down promptly after dark and on Sundays to a cosmopolitan metropolis that hosts North America's largest Chinatown, Greektown, and Indian community, to mention just a few

Toronto is the most visible exemplar of the astonishing speed by which immigration has affected Canada's cities (Figure B10.2). Vancouver, for example, is close behind foronto in percentage of immigrants in the population. The consequences of this influx are that Canada's cities have

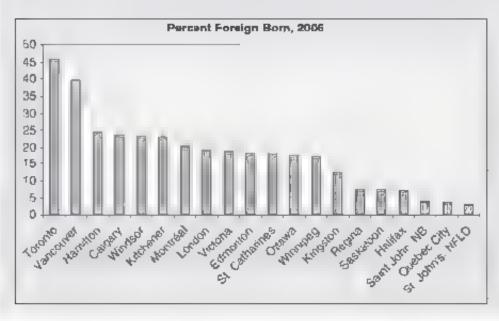


Figure B10.2 Percentage foreign born in Canadian metropolitan areas, 2006. Most munigrants arrive in Toronto, Vancouver, and Montreal, but some metropolitan areas in southern Ontario. A berta, and British Commina contain a high proportion of foreign born. Simile From Staustics Canada, http://www.statean.gc. ca/pub/11/402-x/20/0000/ chap/imra/tb//tb/03-eng.htm.

socioeconomic status, and differ in their degree and conditions of urbanization. In general, Hispanics are very urban, with some 92 percent living in metropolitan areas as of 2000, compared with 78 percent of non-Hispanic whites. Six metropolitan areas—Los Angeles, New York, Miami, San Francisco, Chicago, and Houston—account for furly half of all U.S. Hispanics.

Mexicans

The largest group of Hispanies are Mexican American, making up some 58.5 percent of the total

(Figure 0.10). The tradition of Mexican migration began mostly in the twentieth century, with many Mexicans moving to areas that had once been part of Mexico. The first surge of Mexican immigration took place during the 1920s, when Mexico emerged as a source of low-wage labor for farms. After World War II, the Bracero program renewed immigration activity. The Bracero program was an effort to bring in Mexican laborers to work on farms in the West, increasing the Hispanic presence in traditional states as well as in Idaho and Washington.

been reshaped to an extent heretofore anseen. Canada's British and French heritage has given way to a multiculturalism borbe of many different nationalities. The Canadam government policy has embraced multicultura ism, affording ethnic groups greater autonomy, linguistic privileges, and funding than is true of the United States. It additions the immigration of peoples from Asia, Latin America, the West Indies, and Africa has led to a rapid increase in what Canadians term visible minorities, or nonwhite pupu adons is true in the United States, many nonwhite pipu adons concentrate in the inner cities, forcing Canada to confront issues of race and urbanism. Other aspects of the influx of intingrants have to do with their growing presence across the urban landscape, found in markers, ike stores, schools, monuments, and signage (Figure B10.3)

Canadian immigration has occurred within a national and cumural context quite different from that of the United States. Canada has long styled itself a bilingual nation, uplit between English- and French-speaking peoples. All of the cities in Quebec contain a clear majority of French Canadians, while the cities in the rest of country began as overwhelmingly English. The capital city of Ottawa is a rare exception: It is truly bilingual in spirit as well as in letter.

French Canadians are suspictions of immegration for two reasons first, because it might appear to challenge the French position as Canada's principal ethnic group, and second, because immigrants tend to acculturate into the English Canadian society, even those who arrive in Quebec Quebec has taken steps to open itself further to immigration while ensuring that newcomers learn the language of the majority—French.



Figure B10.3 Chinese presence in Vancouver. British Commbia.

Although this program ended in 1964, Mexican immugration has contained at a steady pace. Mexico is what econe mists consider a misdle-income country, and it is far wealth or than many other countries in Latin America. At the same time, the boundary between Mexico and the United States represents the most pronounced economic disparity among international border zones in the world. This creates an extraordinary series of push-pull forces that cause Mexico to be the greatest supplier of both legal and liegal immigration. The North American Free Trade Agreement (NAFTA) attempted to address

these assues by creating a more rational economic framework that was supposed to decrease the amount of illegal entry. Thus far, there is little evidence that NAFTA has succeeded in this endeavor.

Urbanization Trends The initial Mexican settlement patterns were rural, largely because most Mexican imaggrants were farm nugrant workers. Over the course of the twentieth century however, Mexican Americans became more urbanized. Los Angeles County, the largest urban county in the country, contains nearly 4 million Latinos, most of

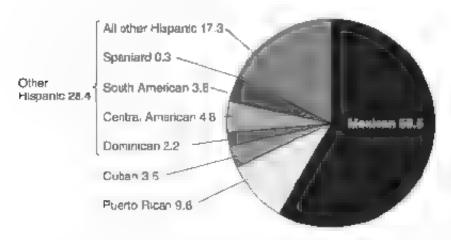


Figure 10.10 Distribution of the Latino population, by astronality, 20.0. Source Census 20.0 Brief (http://www.census.gov/prod/cen2010/briefs/c2010br-04.pdf)

whom are Mexican. In fact, Los Angeles contains the largest Mexican population outside of Mexico City. Likewise, in San Antonio, Corpus Christi, El Paso, and Brownsville (all in Texas), a majority of the overall population is of Mexican origin, These cities now contain extensive ethnic communities, with a host of institutions, businesses, and church and charitable networks. This layering of institutions that provide the needs of ethnic groups within a city has been defined as institutional completeness.

Los Angeles provides the clearest example. In 2010, the segregation index (or index of dissimilarity) for the Los Angeles metropolitan area stood at 62.2. The center of this city's Mexican community is Broadway Avenue, just east of Los Angeles's modern downtown. Broadway used to be the main street in Los Angeles for everyone, mass transit lines or "Red Cars" would bring in shoppers from far afield. Now Broadway is a Mexican shopping district (Figure 10.11). Hundreds of shops advertise in Spanish and cater to the needs of the population. Numerous bridal shops and stores selling dresses for the traditional Mexican lifteenth birthday ecsebration compete for attention with jewelry stores, electronics shops, and the Broadway Market, where all kinds of Mexican foodstuffs can be purchased

Cubans

Cubans, another significant Latino group, are proportionally small in number but heavily concentrated and politically and economically powerful. Unlike Mexican migration, which was driven largely by economic conditions, the migration of Cubans has a clear political genesis. When Fidel Castro took over the



Figure 10.11 Broadway Avenue is just east of downtown Los Angeles. It is a major shopping street for Los Angeles's Latino population

government and Cuba became a Communist country, a number of people from the middle and upper classes were compelled to leave. Despite the existing immigration restrictions in the United States in the early 1960s, the Cubans were considered refugees from a Communist and and therefore were allowed free entry. Moreover, they have been treated better than any immigrant group in American history. Not only was legal entry quick and inquestioned, but about \$400 million in financial assistance was offered, and a Cuban Refugee Emergency Center was established by the U.S. government

Cuban immigration has continued in fits and starts since the early 1960s. Most of the Cubans who came over from 1960 through 1979 were fairly wealthy, highly educated, and mostly white. There was a big spike in Cuban immigration in 1980, when Castro allowed 125,000 Cubans to leave from the Port of Maniel Most Marielitus were less well-educated and poorer than previous Cuban immigrants, and many were black or mulatto (mixed race) In addition, the presence of nonpolitical prisoners and mental hospital patients in this group prompted some concerns.

Florida Concentration Cubans are highly urbanized, with nearly all living in metropolitan areas. The metropolitan area of choice is Miami, with a much smaller number settling in New York. The relationship between Cubans and Miami began before Castro's takeover. After all, Cuba is only 90 miles away from southern Florida. It was during the early 1960s that the conduit between the two places deepened Refugees from Communist Cuba desired to remain close to their homeland, and the growing Cuban community in Miami only strengthened that Jesure. The United States did attempt to resettle the Cuban population outside southern Florida, but with nttle success. As a result, the relationship between greater Miami and the Cubia ethnic population is unmatched anywhere else in the United States. More than half of all Cuban Americans live in Dade County tthe county that includes Miami), and two-thirds live in Florida. This has enabled the Cuban population

to parlay its relatively small population (just 4 percent of the Hispanic total) into enormous political and economic influence (Box 10.3). By and large, Cubans in Miann are prosperous (with the exception of some Marielitos), well organized (boasting an enormous army of economic, cultural, political, and social groups), and politically powerful. Today, most Cubans in the United States are citizens, and their influence is enough to support Cuban American local leaders and congresspeople, and to have an impact on U.S presidential politics,

Altaough Cubans to Minitu are fairly prosperous and can afford housing throughout the metropolitan area, they tend to be segregated from nearly every other group: Anglo (or non-Hispanic) whites, blacks, Asians, and even other Hispanic groups (Figure 10.12). The traditional center of the Cubancommunity is Little Havana, which at one time was a rundown area on the southwest side of Miami's central business district, but has now been rejuvenated with the concentration of Cuban residents and businesses. A newer, more prosperous core can be found in Hialeah, a suburb that is two-thirds Cuban. These neighborhoods and other adjoining areas are Cuban in every way ethnicity, language, political organizations, stores, banks, and other businesses. In fact, the level of cohesion is so strong here that some have described the creation of a segregated moral community, one that includes a fierce anticommunism, the adoption of extremely conservative views, and disapproval toward maveneks or non-Cubani in general

Puerto Ricans

Puerto Ricans are the second largest Hispanic group, constituting about 16 percent of the total Hispanic population within the mainland United States. This distinction is important because officially, the island of Puerto Rico is part of the United States (although it is not a state), and its residents enjoy U.S. critzenship. As a result, no immigration is necessary to go to the mainland and there is substantial back-and forth migration between the island and the mainland. This makes Puerto Ricans unique among Hispanic populations. Significantly, the population of Puerto

BOX 10.3 THE CREATION OF ETHNIC ECONOMIES

Several transgrant groups to the United States have chasen to open their own businesses—bypassing the mainstream economy (nonething economy) in favor of emerginenesiship (Table B.(I.1). The relative proportion of self-employment varies considerably by ethnic group and follows a long-standing process pursued by "minigrants from the nineteenth century offward. The reasons behind the decision to start one's own business are varied. For many individuals, self-employment is an opportunity to be one's own boss, a common factor among native U.S. residents as well. For immigrants, it may also be a way to avoid having to operate on the terms dictated by the majority. For still others, self-employment is a response to frustrated expectations, as people find that their education and skulls are not appreciated in the American economy.

Ethnic husiness ownership depends on resources, and these certainly vary by group. The ability to open up a store or other business depends on access to four main ypes of resources. (1) brancial capital, that is, gaining enough start-up money. 2) human capital, that is, previous expenience and education. (3) social capital defined as seeful social networks, often based around one's membership in a particular class, and finally (4 ethnic capital, which refers to the resources of the particular ethnic group. Ethnic groups differ greatly in their access to the required resources. For example, the success of the Korean population can be attributed to a combination of these resources.

Recans living on the U.S. mainland—almost negligible before 1950—now almost equals the population of Puerto Rico itself. The conveyance of choice has been the airplane. By the 1950s, airlines were providing a one-way tacket for \$35, with installment plans available for those who could not pay even that amount.

Spatial Patterns: Although the Island of Puerto Ricons Rico contains a large rural population, Puerto Ricans in the mainland United States are almost exclusively urban. Historically, most Puerto Ricans have come to the New York metropolitan area. Higher populations are found in nearly every borough of New York.

Table B10.1 Business Ownership of Ethnoracial Majorities in the Linited States, 2000

Ail Industries	Setf Employed	
White	10.7%	
Black	4.7%	
Mainland Chinese	9.7%	
Tarwanese	14.5%	
Jupanese	10 8%	
Korean	21 1%	
Asian Indian	9.8%	
Pakistani	14.3%	
Filipino	5 2%	
Vietnamere	10 0%	
Cuban	11.9%	
Puerto Rican	4.5%	
Mexican	9 8%	
Entire Population	9 9%	

Source: Authors.

Note: Earlier data suggests that Koreana, Indians, Japanese, Cabana, Chinese, and Vietnamese ethics groups are likely to emptoy conduites. This often increases the catalle presence of businesses by more than 150 percent.

Many Korean unmigrants were bighly educated and owned homes in Korea. Koreans also could take advantage of posted credit among co-ethnics, as well as the byalty of customers. Cubans in Miami, have also been able to partay

City and in northeastern New Jersey There is also a significant Paerto Rican concentration in southern New England and Pennsylvania. In cities like New Haven, Hartford, Springfield, Worcester, Boston, Philadelphia, and Altentown, Puerto Ricans are the predominant H spanic group and are sometimes the largest nonwhite group (Figure 10.13).

By some measures, Puerto Ricans are the poorest major Hispanic group. A higher percentage of Puerto Ricans than Mexicans ive in poverty and are on welfare, although Puerto Ricans have a slightly higher per capita income than Mexicans. In New York City, Puerto Rican neighborhoods ake Spanish Harlem and the South Bronx are achingly poor,

their human capital and ethnic capital advantages into taltral predominance in some lucrative niches—apparel and construction—which then led to greater diversification

The concept of an ethnic economy differs from surple ethnic business ownership. An ethnic economy consists of a group of businesses owned by members of a particuair ethnic group that also employs members of that group. Figure B10.4). Ethnic economies differ tremendous y in their scope. A series of stores and businesses run by an ethnic group certainty makes for an ethnic economy but it may not be. Some, but not all, ethnic economies are internally integrated. In other words, the businesses buy from one another and are otherwise linked. This integrated economy is sometimes described as an enclave economy. A few groups have been successful at creating such enclave economies. Koreans in Los Angeles, Chinese in Califorma's San Gabriel Valley, and Cobans in Mia.m. The Cubanenclave economy has developed a series of links among manufacturing, service, wholesale, and retail businesses. The result is an economy that can employ apward of 70 percent of al. Cuban workers, and that some argue can provide higher returns than the mainstream (nonethnic) economy.

Ethnic economies are often related to some form of spatial clustering. This need not be residential clustering. For example, Koreatown is a massive aggregate of Korean-owned businesses, but it is not where the Koreans live. Clustering or segregation may confer an additional spatial resource that allows ethnic businesses an opportunity to take advantage of a nearby costomer base and labor

supply. It may also foster unks between businesses and can serve as a focus for a more broadly dispersed population

The emergence of an Indoch ness ethnic economy in St. Paul is best captured within the space of a few key blocks (Figure B10.5). This schematic transect of six blocks along University Avenue, a busy comdor about a knowleter from the downtown and extending west, shows activity at two different points in time. Asian-owned businesses have changed both in quantity and in diversity over the period that Southeast Asians have settled in St. Paul. As with many such ethnic economies, this business activity has grown out of residential clustering nearby.



Figure B10.4 Change herbal shop in center of Asian immigration area in Los Angeles.

continued)

having greater problems of drug dependency, blight, and social pathology than adjoining neighborhoods dominated by African Americans. This has become less common however as more Puerto Ricans have joined the middle class and moved to suburban neighborhoods. Puerto Ricans concentrate its particular neighborhoods, but they do not dominate to the extent that Mexicans and Cubans do in their respective enclaves.

Latino Influences

Latino augmations have profoundly altered the population composition of American cities. In addition to the three groups mentioned above, Hispanic groups such as Dominicans (from the Dominican Republic),

Salvadorans, Colombians, and other nationalities are well represented among recent immigrants, although they have not had the same cultural or social impact on cities as the three groups mentioned above

Significant Aspects Several aspects of Latino immigration and ethnicity are significant

1 First, Hispanic poverty is high and seems to be increasing slightly. Except for Native Americans. Latinos are the poorest ethnic group in the United States. However, his generalization masks some major differences among and within groups. Cubans, for example, are quite prosperous, with income levels that approach those of non-Hispanic whites. Mexicans display a range of incomes, but are primarily poor (especially).

BOX 10.3 (Continued)

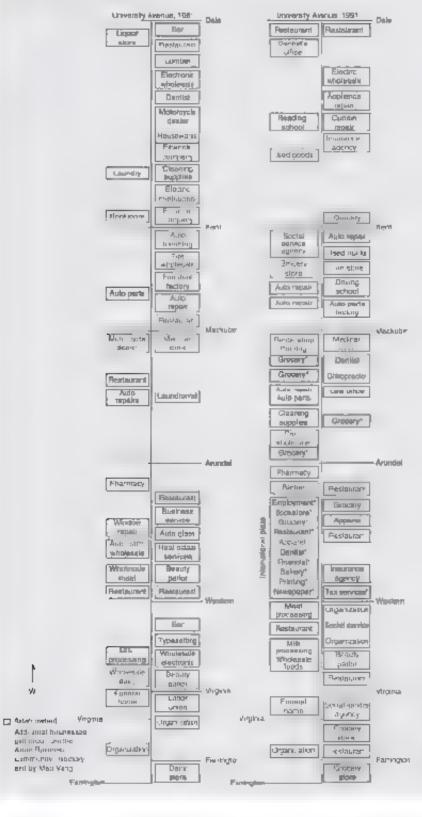


Figure B10.5 Changes is ethnic ownership on University Avenue S. Pau. Mannesota Between 198 and 99. St Pau. s Southeast Asian population acquired many businesses along University. Avenue, creating the numerity on ethnic economy. Source Kuptan, David H. 1997.

Cubans Living in Metropolitan Miami* 2000

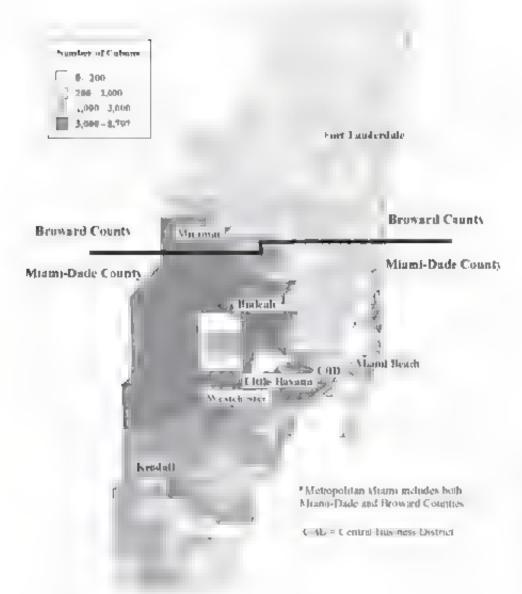


Figure 10.12 Cuban populanon in Marni. Dade County. Florida. Minmi is the center of he Cuban community, most of whom have immigrated from Caba since 1960. Source: Courtesy of Tom Boswell. 2006.

when undocumented immigrants are included). Puerto-Ricans are the worst off of the major groups and the most likely to be on welfare.

Segregation exists between Latinos and other groups. but it is not nearly as great as with blacks (Table 10.2). This is evidence that there is less discrimination toward. Latinos than toward blacks and there is also less of a

tendency for real estate professionals to "steer" prospective renters or buyers into exclusively Latino neighborhoods. People studying segregation and income have noted that Latino groups-Puerto Ricans and Mexicans in particular-may have lower incomes than blacks but are more spatially integrated. Remember that Latinos can be of any race, and the expenences.





Figure 10.13 Poeto Ruson nopulation by metropoular are: 2000 late Mist Poeto Ruson who eve in the U.S. main and are in New York. New Jersey the southern New Englandistates, and Florida. *South o*: Map made by Jose R. Díaz-Garayúa.

of "white" Lannon diverge from these of "black" Latinos. Some of the newest information from the 2010 Census suggests that Latino segregation continues to be an issue, and that more metropolitan areas are experiencing what might be described as moderate segregation as the overall Hispanic presence increases.

3 The Hispanic influx into certain metropolitan areas has often increased racial antagonism. For instance, many Latinos have moved into neighborhoods formerly occupied by blacks (as in many of the neighborhoods affected by the Los Angeles riots of 1992). Latinos are also more likely to take low-wage jobs (owing to the undocumented status of many Latinos in the United States), and his creates friction with black workers who are competing for the same jobs.

Table 10.2 Hispanic-White Segregation Averages

Top 102 Metropolaan Areas	1990	2000	2010
25th percentile	28 2	35 1	36.8
Median 75th percentile	35.7 48.5	44 3 52 Z	43 I 49 6

Source: William H. Frey analysis of 1990, 2000, and 2010. Ceasures, http://www.psc.isr.emich.edu/dis/ceasus/seg.ogation.

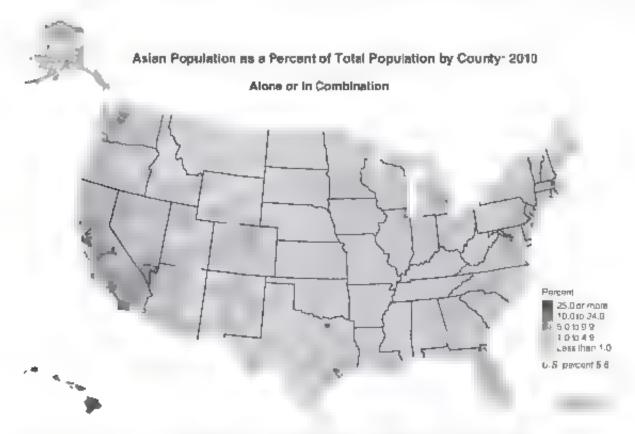
NEW ASIAN IMMIGRATION

The Asian population of the United States has been necessing more rapidly than any other large group. Asian immigration began with the early introduction of Japanese and Chinese immigrants around the turn of the twentieth century (see Box 10.1), but then it was cut short by exclusionary legislation. The numbers of Asian Americans, which were small to begin with, increased very slowly and were not supplemented by new arrivals. The passage of

immigration legislation in 1965 changed all of this. In 1970 there were 1.4 million Asian Americans—less than 1 percent of the U.S. population. By 1980, the Asian population had more than doubled to 3.5 million—about 2 percent of the overall population, Between 1980 and 1990 the Asian population doubled yet again, and constituted 3 percent of the total. By the time of the 2010 census, Asian Americans numbered 14.7 million people when counted singly, and an additional 2.6 million when counted as part of a combination of races. Pacific Islanders, with whom Asians have sometimes been lumped for statistical purposes, numbered about 540,000. As a result. Asians now constitute 5 6 percent of the U.S. population today, and are projected to become about 9 percent of the population by 2050. No other group comes close to this rate of growth

Variations in where Asians live has much to do with the favored destinations among Asian initialgrants. By far the greatest concentration is within Hawail, where about 42 percent of the population considers itself Asian, 9 percent are Pacific Islanders (including native Hawanana), and 21 percent are of mixed race that is mostly Asian

There are also two regional concentrations of Asian residence outside of Hawail (Figure 10.14). First is the West Coast, which contains about 40 percent of the total Asian population. In fact, about 36 percent of Asian Americans live in California alone. This reflects the historic tendency of Asians to immigrate across the Pacific Ocean and disembark in Los Angeles or San Francisco. Second, there is the concentration of Asians along the Northeast megalopoids, centered in New York City but with sizable numbers at both ends-Boston and porthern



Source J.S. Census Bureau, 7010 Census Redictacting Data (Public Law 94-171, Summary File Table P1

Figure 10.14 Percent of Asian population by county 2010. Asians are regionally concentrated in the Northeast corridor Hawaii. West Coast Florida. Chicago and Dearoit. Source: Mapping Census. 20-0. http://www.census.gov/prod/cen20.0/bnefs/c2010br-11.pdf

Virginia. These major cities, especially New York, continue to attract immigrants. Beyond these locations, Asians are found concentrated in a series of separated counties and cities. Chicago, Houston, St. Paul, Jacksonvide, and many college towns. These concentrations stem from varied forces. College communities like Ann Arbor. Michigan, host well-educated and sought after Asian professionals who are involved in universities or related institutions and industries. The Asian population in St. Paul, by contrast, is the result of a refugee stream of poor Southeast Asians, especially the Himong from Laos. Significantly, each census finds Asian Americans to be less concentrated in particular states and places.

Urban Orientation and Some Models of Asian Segregation

Asian Americans are highly urbanized—some 19 out of 20 live in cities—and are more likely to live in central or inner cities than are non-Hispanic whites. They enjoy a substantial presence in some cities, but they are a plurality in only one large city (Honolalu) and one smaller city. Daly City, just south of San Francisco). Otherwise, Asian Americans predominate in some smaller suburban towns such as Monterey Park, California, and especially in urban neighborhoods.

Asians as a whole enjoy socioeconomic advantages over other minority groups and white Americans as well (Table 10.3). According to the most recent data, nearly half of all Asians have a college degree, two-thirds are employed in a white-collar occupation (one-third as managers or professionals), and their median household income of \$65.129 is

almost double that of blacks and H.spanies and is significantly higher than that of non-H.spanie whites. What is more, Asian Americans have suffered least in the recent recession, with the lowest unemployment rate of all population groups. Asians are also more axely to naturalize, that is to adopt American citizenship, than are other immigrant groups.

This success is parity responsible for lower levels of segregation. By and large, Asian Americans are the least segregated of all major minority groups. In 1990, Asians constituted a bit less than 4 percent of the overall metropolitan population, Their segregation index average of 39, weighted by the metropotian area population, was lower than those of African Americans (64) and Hispanics (42). Other indices of segregation were likewise lower-much lower than for blacks and a bit lower than for Hispanics. Asian Americans are also more likely than any other major group to marry outside of the group-the practice known as exogumy. About 40 percent of al. native-born Asian Americans marry outside of their ethnic group, although they may marry an Asian of another ethnicity. This practice clearly affects residential patterns because mixed marriage partners and their children tend to locate in integrated neighborhoods. Substantial variations in Asian American resdential patterns do occur, and we nught usefully point to four types of Asian ethnic neighborhoods or enclaves (from Chung, 1995, and Li, 1998):

1 Traditional ethnic neighborhonds. These are the neighborhoods that have traditionally served as the first point of entry for Asian immigrants. For instance, big cities on the East and West Coasts have a well-recognized.

Table 10.3 Socioeconomic Status for Major Census Groups

	Manageriai Professional (%)	Semestiled Unskilled (%)	Houseke (d. Income	Unempa vment Rate
	1997 1998	199, 1998	20,2	2011
V _e trate	13	- 2	\$52,214	8
African American	20	20	5.32,229	17.7
Asian	34	- 11	\$65.129	7.9
Latino	-5	2,3	5,38,624	3.5

Some Polard and O Hare. 999 pp 33-36. For recupation hap://www.census.gov/prod/2012pubs/pol/-243.pdf for household-acomethic trace interaction of the prodestance of

Chinatown that serves as an otheric crossing point for immigrants just entering the United States and for more established ethales who still own businesses there, or who just use the area to shop and for social and other activities. In many of these exties, Chiratown has decreased its share of the overall Chinese population but has increased as a center for other Asian ethnic communities. Manhattan's Chinatown, for instance, now encompasses a pan-Asian population of Koreana, Southeast Asians, and others. Boston's Chinatown is likewase patronized by several Axian ethnic groups. Among Japanese Americans, Little Tokyo in Los Angeles serves the role of a traditional enclave. In the 1920s and 1930s, it was built as a center of business activity and social life. Since the 1960s, the Japanese population has scattered throughout the greater Los Angeles metropolitan. area, but the neighborhood continues to hold special significance as a distinct ethnic place.

- 2. One-step-up enclavet. These are neighborhoods within easy access to the traditional immigrant point of entry, usually the Chinatowns. Most of the residents of these neighborhoods are either in the middle class or close. The Asian population, while maintaining many ethnic ties, also interacts with the other groups present within the community. These communities are still recognizably urban, but they include people who plan to actile down, buy a house in the neighborhood, and send their children to the local schools.
- 3. Ethnoburbs: The suburbanization of the American population has been joined by many Asian groups whose income and education make living in affluent suburbs far more feasible. This has given rise to a new type of ethnic settlement-what geographer Wei Li (1998) calls an ethnoburb but what might also be described as a suburban enclave, with features of both an ethnic neighborhood and a suburb. The populations residing within these neighborhoods tend to be uffluent-belonging to the upper-middle class-and are much more tied into regional and global economic flows. The San Gabriel Valley east of Los Angeles exempation this type of settlement. It includes high propertions of immigrants—from Taiwan, Hong Kong, Chma, and Indochma—and is characterized by substantial ethnic businesses, high educational status, winte-collar occupations, and comfortable housing
- New immigrant enclaves: These are enclaves located in pourer communities that include a large number of recently arrived immigrants. Many of the immigrants come from a more diverse set of countries (Victnam,

Lacs, Cambodia. South Korea, and South Asian countries) than was traditionally the case. They are also more likely to reat and to move out of these neighborhoods as they enjoy a bit of success. Although several such new enclaves are located close to the central business district, many are found further out, in outlying city neighborhoods and in miner suburbs.

Any discussion of Asian Americans as a whole masks some enormous distinctions among the expemences of different Asian groups. Although nearly all Asian Americans live in metropolitan areas, they differ in terms of urban location, levels of segregation, and socioeconomic status. This is three even in generally affluent neighborhoods like the ethnoburb. where the Indochinese and mainland Chinese populations fare much more poorly than do the immigrants from Talwan and Hong Kong, Great differences also persist within groups as well. Some social scientists have described the status of Asians in terms of a bipolar distribution, meaning that Asians are overrepresented at both the bottom and the top of the socioeconomic scale. Table 10.4 shows how this relates to educational levels. It makes sense therefore to highlight some aspects of a few of these Asian populations.

Table 10.4 Asını Groups by Selected Educational Category, 2000

Group (Single Response)	No High School	College	
Indian	13.3%	63 9%	
Pakistoni	18.0%	54.3%	
Chinese	23.0%	48.1%	
Korean	13.7%	43.8%	
Filipins	12.7%	43.8%	
Japanese	8.9%	41.9%	
Than	20.9%	38.6%	
Victoamese	38.1%	19.4%	
Cambudian	53 3%	9.2%	
Laocan	49.6%	7.7%	
Hmong	59 6%	7.5%	
All Asian	19 5%	44.2%	
Total Population	19.6%	24.4%	

Source: Census 2000, Summary File 4

BOX 10.4 TECHNOLOGY AND URBAN GEOGRAPHY

MAINTAINING SMALL ETHNIC COMMUNITIES VIA THE WORLD WIDE WEB

The Iraditional portrait of taban ethnic settlement involves colorful signs, banners and flags, festivals and parades, and a host of shops complete with exode items exposed in the window. But the majority of ethnic communities do not enjoy the size thresholds needed to support these types of places. What is more, many ethnics move to the suburbs, where an automobile culture precludes much of the street life we associate with ethnic community. This dilutes the visibility of the ethnic group, and may also weaken the ties between members of the group, their homeland, and each other Computer technologies, in particular the World Wide Web, have emerged as a means by which ethnic communi-Les can maintain their ties, even within the sma lest commanity. There have always been ethnic media. Newspapers and radio served as important points of contact among ethnic groups. But the Internet offers something more. It provides a means of two-way communication that is instantly apdateable providing much of the bulwark for a virtual ethnic community

This technology can be especially he pful for tany commainties. The number of Latvians in North American cides never exceeds more than about 7,500 (in Toronto) and

4,000 (in Chicago). For the most part, the community is externally invisible; most of the markers of ethnics are found within interior landscapes. It is through the Internet, however, that Latvian ethnics are able maintain their ties. One Latvian American woman points to the Internet as "a good way of meeting and staying its conset with Latvians all over the globe. From the Latvian camps she attended and those attended by her children, they have become acquainted with many other members. Her four children are always online with Latylans from North Amertes and Europe, chatting away" (Woodhouse 2005, 170)

Larger communities also benefit from Internet commanication. The Asian Indian ethnic group in the United States is the third largest of all Asian groups, and has been quite successful. But compared with many other American ethnicities, the Indian American community is not very visible. Much of this can be attributed to their geographic location to the suburbs. Without a set of concentrated settlement nodes, the Indians have come to exploit Internet technology as a means of cohesion. The Internet has allowed Asian Indians to create what Adams and Ghose (2003). describe as "bridgespaces" that allow them to communicate with each other and which also tie together the Indians at North America with the South Asian subcontinent (Figure B10.6)

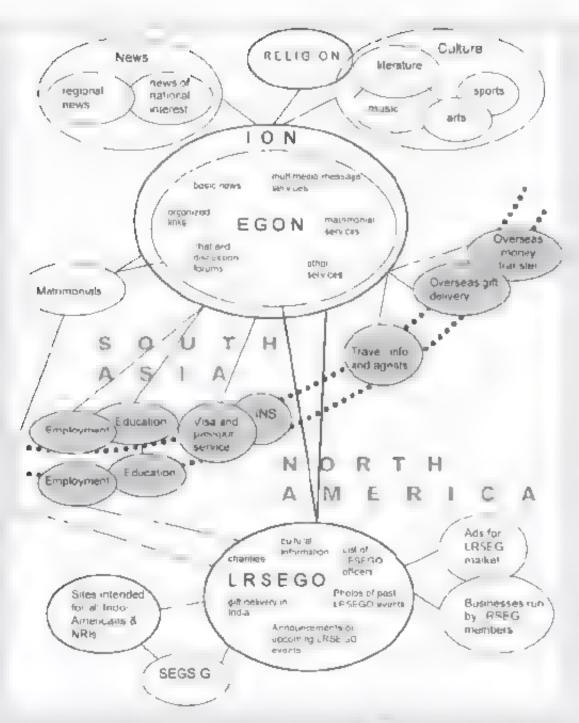


Figure 810.6 Websites used by nonresident Indians to maintain their maspone identities. Indian Online Nodes. IONs are adsigned to help users navigate quickly to sites of interest to Indians in India and overseas. Ethnic Croup Online Notes. I GON are mortipurpose sites delicated to a particular si hethnic group. Local/Regional Subjections or Organizations in the USA. Source: Accurs. Part and Rina Ghose. 2003.

Asian Indians

There is a saving that there is "no motel without a Pate)" (Bhardwaj and Rao, 1990). By some estimates members of the Patel or Gujarats group-ethnic groups within India-own more than one-quarter of all motels in the United States. There is also a high concentration of South Asian physicians, engineers, professors, and other professionals in the United States. Overall, South Asians are a very successful immigran/ethrue group that is an fact composed of many diverse groups. The South Asian population in the United States is still predominantly Asian Indian, which in itself includes about a dozen distinet ethnicities, but it also includes several groups with ong its in Bangladesh, Pakistan, and Sri Lanka. Their influence on America's religious geography in particular has been profound. The introduction of Indians especially has created a significant Hinducommunity, whereas Pakistanis and Bengalis have augmented the Muslim population.

Between 1986 and 1998. Asian Indians accounted for about 12 percent of Asian immigration and about 4 percent of all immigration. Other South Asian groups rogether added an additional 2 percent of total immigration. As a rule, the Asian Indian immigrants and their descendants have done remarkably well. Nearly 60 percent have a college or graduate degree, and 44 percent are managers or professionals—higher than any single group. Their median incomes are likewise high.

This extraordinary level of economic success may help explain why few defined South Asian enclaves exist (but see Box 10.4). Large-scale regional concentrations do exist. Asian Indians are more likely to live in northeastern states, especially along the megalopotis, and in Illinois and Texas than in other states. And Asian Indians greatly prefer metropolitan areas. Asian Indians are only slightly more likely than whites to live in a metropolitan area's central city, for instance, and so the majority live in the suburbs. Few Indian towns are visible on the land-scape (a major contrast with the very visible Indian and Polosiani communities in Great Britain). In one study Bhardwaj and Rao (1990), indicated that Asian Indian segregation compared to whites was lower

than that of any other Asian group. They attributed this pattern to (1) the high socioeconomic position of Indians in general, (2) the fact that many Asian Indian immigrants arrived with a firm knowledge of English, and (3) the fact that Hinduism as a religion may minimize segregation because its focus of religion is in the home rather than the temple. Within most metropoli an areas it is difficult to discern Asian Indian enclaves, although some defined residential and business enclaves can be found in neighborhoods of Chicago, Newark, Washington, D.C., and Cinemoat.

Indochmese

Most of the immigration that has taken place in recent years can be described as voluntary and/or based primarily on economic necessity. This certamly is true among most of the major Asian groups. The Inductinese immigration forms an exception to that rule in that most immigrants can be classified as refugees. Indoching comprises the pertion of Southeast Asia, once colonized by the French, that now consists of the countries of Vietnam, Cambodia, and Laos. It includes at least five distinct ethnic groups Vietnamese, Sino-Vietnamese (Chinese ancestry Vietnamese), Cambodian or Khmer, Leo (from owland Laos), and Hmong (from the Laotian highands). These populations were all caught up in the Vietnam War, Between 1975 and 1996, about 1 nullion Indochmese refugees came to the United States (Figure 10.15). The Indochmese came in three district waves. The first wave involved wellconnected individuals who fled as soon as the United States abandoned Sargon in 1975. The second wave took place between 1979 and 1982 and was composed of four main groups: (1) families of the unitial refugees. (2) people who had ues with the United States and were thus in danger, (3) boat people from Vietnam, and (4) refugees from Laos and Cambodia who managed to escape across the border. The third wave has continued since the mid-1980s and includes people released from reeducation camps. Amerasian children (whose fathers were American servicemen), and some who had spent long years in United Nations refugee camps in Thailand.

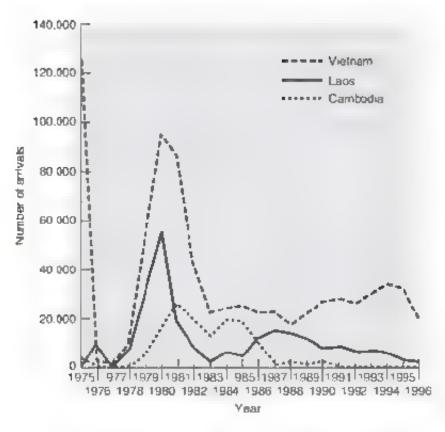


Figure 10.15 Refugee arrivals from Southeast Asia to the United States, 975–1996 Victnamese refugee arrivals were high after 1975, and refugees from all three Indochinese countries spiked around 1980 Source Airness Christopher and David Clawson, 2000

The U.S. government initially hoped to disperse the flood of refugees from Southeast Asia. They enlisted the support of voluntary agencies, or VOLAGS, to act as sponsors for the immigrants. These VOLAGS were primarily church-related the United States Catholic Conference was the largest-and were scattered around the United States, mainly in metropolitan areas. Over time, the immigrants, especially those in the second and third waves, began to reconcentrate in a few key places as they moved to where their compariots and families lived. Yet the initial dispersion and use of VOLAGS did have some effect. Although California is the main settlement site, large concentrations of Southeast Asians are found in Texas, Virginia, and Louisiana (primorily Vietnamese), Minnesota and Wisconsin (Hmong and Lao), and Massachusetts and California's Central Vailey (Cambodian). The Hmong are particularly interesting in that they have eschewed the usual immigrant hot spots and are concentrated in cities like Fresno, California,

St. Paal, Minnesota; and Eau Claire and La Crosse, Wisconsin.

By and large, the Indochinese are the poorest of Asian immigrants. The majority of adults came over with less than a moth-grade education, and large numbers of Indochanese are stell unpoverished. In the short time they have been in the country, they have left a distinct imprint on many American cities. Studies of northern Virginia, Fresno, New Orleans, and St. Paul show the extent of "place making" among various national groups. Although a significant number of Indochinese, especially Vietnamese, are fairly well off, large numbers of Southeast Asian Americans are quite poor. In St. Paul, Minnesota, for example, Southeast Asians occupy some 80 percent of the available public housing. In New Orleans, Vietnamese populate the public housing project known as Versailles. These are inner-city urban examples (akin to the new immigrant enclaves) and indicate a medium level of segregation, as new, poor immigrant 3012

populations live side by side. Looser suburban concentrations (akin to the ethnoburb and one-step-up examples given earlier) also have come into being. One notable district in Westminster, California, is called "Little Saigon" in recognition of the impact of Victoamese merchants and residents across this suburban andscape. The Sino-Vietnamese appear to have been singularly successful in the establishment of businesses here. Another example is found in northern Virginia, where the Vietnamese have developed clusters of stores that replicate an urban market district in Vietnam, Figure 10, 16).

Karaans

In Los Angeles, just to the west of the central business district, is an area of approximately one square mile known as Koreatown. In this district, strung along Wilsture Boulevard, one can see a vibrant Korean enclave. Signs in Hangul script (the Korean alpha bet) predominate. Studios for Korean-language television and radio locate off side streets (Figure 10.17).

Hotels with names like the Hilton Koreana, banks. restaurants, travel agencies, and services make clear the ethnic identity of the neighborhood. Although Koreans have begun to have a profound effect in a number of American cities, Los Angeles clearly has a special significance for Korean life in the United States. Korean immigration did not really begin untithe 1970s. It was facilitated by easing restrictions on both the U.S. and South Korean ends all immigrants are from South Korea. North Korea has remained completely closed off since the 1950s). There were about 350 000 Koreans in the United States in 1980: 800,000 in 1990; and about 1.7 mil. on in 2010. Because they are recent arrivals in this country, most Korean Americans are foreign born, although that percentage is declining. The volume of immigration is likewise declining somewhat, especially when compared to several other Asian groups. Today, the Koreans constitute about 10 percent of the Asian poputation. The regional distribution of Koreans indicates that they are concentrated on the West Coast

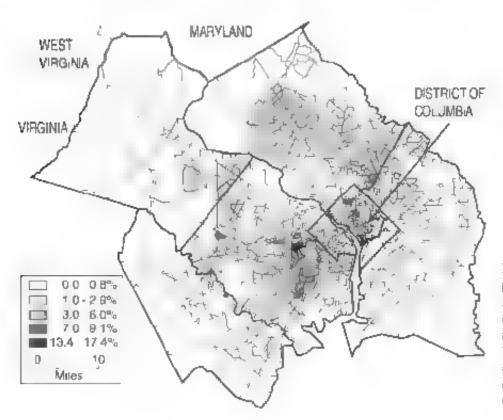


Figure 10.16 Southeast Asian population in Washington, D C 2000. Southeast Asian refugees, especially the Victnamese, have a substantial presence within the Washington, D C, metropolitan area, and in particular the suburbs of Northern Virginia, Source Courtesy of Chris Airriess.

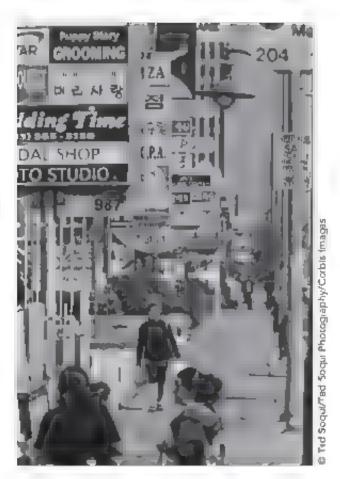


Figure 10.17 Koreatown is just to the west of downtown Los Angeles on Witshire Boulevard. This is the main business center for the Korean community, although most Koreans live in other neighborhoods.

cone-third of all Korrans ave in Cu. forma alose) though less so than other East and Southeast Asian groups. Sign: ficant concentrations also exist in the New York metropolitan area (especially in the borough of Queens), in Chicago, and in metropolitan Washington, D.C.

Like other Asian groups, Koreans are highly urbanized. In Los Angeles and in other cities, they are also highly entrepreneurial. The tail buildings and large firms of Koreatown in Los Angeles are one example of this, but a more common example is the small, Korean-owned mom-and-pop convenience/liquor store. In Los Angeles, such stores are frequent fixtures in poor African American and Latino neighborhoods. In the early 1990s, about 40

percent of all small grocery and convenience stores were owned by Koreans. Within the inner city, where there continues to be a scarcity of supermarkets, 70 percent of stores are Korean-owned (Figure 10 t8). This has sparked a great deal of resentment among residents of these communities, who complain that they are not treated fairly.

Significantly, Koreans do not live in these areas, nor even in the enclave of Koreatown, where the dominant residential population is Latino. In Los Angeles, most Koreans prefer to live in the San Fernando Valley or in Orange County, in fairly mixed neigh borhoods. The tendency among Korean Americans is to scatter in suburbs. As a result, segregation indices among Koreans are low. Koreans have used business activity to create their own traditional enclaves in Koreanown and in scattered outposts of Korean ethnicity throughout the city of Los Angeles.

Asian Influences

The percentage of Asian Americans is still smaller than that of any other major immigrant group. At the same time, Asians are the fastest growing group and one that has had great impact on particular cities. and in particular niches. Several important Astan groups other than those we have just discussed have also made an imprint on U.S. society Filipines. for example, are second only to Chinese in their proportion of the Asian population. As a group, Filiprinos are well represented in California cities and in greater Chicago, Certain middle-income neighborhoods host large populations of Filipinos. Daly City, just south of San Francisco, contains several such neighborhoods. Another group that is partly "Asian" in ongin (though not usually considered as such) is the growing number of Arah Americans. They have a tremendous influence in cities like Detroit and Totedo, Ohio. This is evidenced not only by population numbers, but by the presence of institutions, businesses, and political clout. Even more so than with Hispanies, it is difficult to try to accurately generalize across Asian groups and even within groups. However, a few key points can be made

 Astatis are generally better off than other minority populations. Japanese and Asian Indians are among the

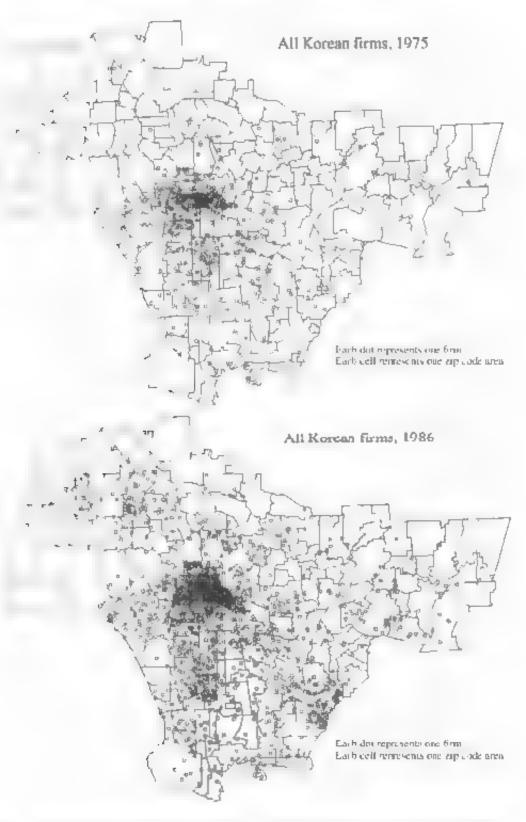


Figure 10.18 Korean businesses in Los Angeles, 1975 and 1986 Source, Lec. Dong OK 1995.

wealthest and best educated Americans—considerably exceeding the education and per capital income of the white population-and a large percentage of Chinese, F.hpinos, and Koreans are also quite prosperous. Asian Americans tend to be overrepresented in many professions. They are also found in high numbers in elite colleges and universities.

- High levels of exogatty characterize the Asaat Amertean population: More than any other group, they are likely to marry someone outside their ethnic group, often whotes. This is a sign of assimilation, but it also threatens the maintenance of ethnic identity.
- Asian Americans are found almost exclusively within metropoli an areas and other cities. However they are more likely than other minority groups to live in suburban neighborhoods, and they exhibit the lowest levels of residential segregation. At the same time-Asian enclaves. Chinatowns and Kineatowns are found within big cities, and these are growing in size New suburban Chinatowns and other Asian enclaves. are also found in the outer city.

WRAPPING UP

Any discussion of urban geography needs to contend with the issues of immigration and ethnicity. This chapter has focused on American cities, but immigration and ethnicity are issues of increasing relevance for cities around the world. Attitudes toward istorigration, changing government policies, and changing source areas have had a profound influence on the evolving character of cities in North America. Although immigration is a continuous process, in this chapter we have charted the separate "waves" of immigration that have characterized different periods. in our history. In doing this, we have noted the different social and economic climates that have greeted he arrival of new Americans, how these climates affected their lives within American cities, and the nature of the cities themse yes.

PART V THE POLITICAL LANDSCAPE OF THE CITY



METROPOLITAN GOVERNANCE AND FRAGMENTATION

Once it is fully established, bureaucracy is among those social structures which are hardest to destroy. Bureaucracy is the means of carrying "community action" over into rationally ordered "societal action," Therefore, as an instrument for

"societalizing" relations of power, bureaucracy has been and is a power instrument of the first order—for the one who controls the bureaucratic apparatus.

-MAX WEBER, IN GERTH AND MILLS, 1958.

Most cities in the Western world and especially in the United States are paeans to private enterprise. The skyline of a city, composed of towering office buildings, hotels, banks, and apartment complexes, is constructed by private developers for the benefit of private interests. The hustle and bustle of a city comes from the movements of people shopping working, and going to entertainment and from the myriad shops, restaurants, theaters, and other diversions meant to attract the money of all of those people Indeed, the very distribution of people and functions in the city can be used to differences in land rent, as discussed in Chapter 5, and the workings of the housing market, as discussed in Chapter 8.

The public aspect of such cities is less obvious, but it enables private enterprise to flourish. Over the decades, cities have grown to embruce many tasks and to accumulate a broad range of powers. Even in the most private, free enterprise-oriented cities, public operations and regulations controlled by municipal or metropointan governments play a major role in the city's shape and function. The expansion of such collective consumption—the consumption of goods and services by all or a portion of the urban citizenty—has led to a search for revenue: sales taxes, property taxes, personal and corporate income

taxes, excise fees, user fees, and other sources. The provision of services, the regulation of activity, the imposition of taxes—these make the operation of the city, or what some refer to as the local state, important and immediate. Many people tune out when discussions of foreign aid or energy policy are debated at the federal leve, but they pay attention when plans are proposed to put up a huge shopping center down the street or to increase property taxes. Everyone and every interest are affected by decisions made at the local level. Urban politics—who controls the levers of city government—is therefore of crucial importance.

This chapter focuses on the changing nature of urban governance and planning in cities. Such a topic is huge, both temporally and geographically. We focus mainly on cities in the United States, bearing in mind that such cities represent a particular bundle of powers and ideologies. Liban government within a socialist, politically centralized country such as Chana enjoys a far different mix of opportunities and constraints than does local government within the United States. We also discuss the geographical implications of governance, mentioning in passing some of the concepts, theories, and insights that have come from fields such as political science. It is for

this reason that much of this chapter is devoted to metropolism fragmentation, planning, and strategies of renewal

URBAN GOVERNANCE AND THE GROWTH OF SERVICES

What is it that local governments do? An awful lot, it turns out. Much of a city's infrastructure—the streets, sidewalks, lighting, ports, airports, sewers, and water pipes that allow urban businesses and residents to thrive-are publicly owned. Some of the transportation itself mass transit in particular is under public control. Public safety is arranged through the city's operation of police departments. fire departments, and emergency squads. A city's public face also appears through the establishment and maintenance of parks the green cases and emerald necklaces that characterize great cities-in recreational areas, and in monuments to great historical figures or to abstract ideals. The goal of universal education is manifest in the network of public schools, public universities, and free ibraries. And the incomplete goal of universa, housing and we, fare is reflected in the varieties of public housing, free medical carries, and income-assistance programs

An additional aspect of city and metropolitan governance has to do with its regulation of the conduct of private enterprise and of human activity. City operations are involved in zoning different land uses, requiring permits for almost any activity, regulating traffic criminal, and potentially hazardous activity inspecting facilities for health violations, levying taxes and user fees, and making the kinds of decisions that have repercussions throughout the city and its environs.

In the United States, local government preceded national government. Colonies were established along the Eastern Seaboard, and many towns and cities were settled and incorporated long before American independence. Cities to the west—Cincinnati, Louisville, St. Louis—were established before their respective states of Ohio, Kentucky, and Missouri. Cities were instituted by charter,

a document that recognized the legal basis of the city and that laid out its prerogatives. Cities varied in their levels of control. Some order cities like Boston had a broad range of powers that could not be usurped by the state. In contrast, many western cities were limited in what they could accomplish. For the most part, city charters established the city as a corporation; as such the city was incorporated. This designation ultimately gave the city the right to act as an "individual" with the power to raise capital by issuing bonds and borrowing money.

Expanding Urban Services

From the onset, American settlements differed from settlements in Europe (see Chapter 2). The physical d fterences were clear American settlements rarely had walls or other man-made defenses. Land was also widely available, and new settlements were buffered by enormous tracts of anused (by Europeans) land. This allowed settlements to spread indefinitely, and it led to far less control over the emerging city shape than would have been necessary had there been a defined physical perimeter. Here, more than elsewhere, economic considerations—land value-determined what went where, often with the highest land value located at the city center (see Chapter 5). This spatial freedom—the ability of residents to pull up stakes and venture farther out-marked and continues to mark American cities.

Urban government acquired more functions and responsibilities over time, especially as the popuation and complexity of settlements grew in the early mineteenth century, governments exercised extensive control over a city's economic activities. Most eities owned at least one central marketplace, as well as dock and warehouse facilities. City authorities set standards of pricing and quality for the goods that came in from the countryside and were sold in the market, In 1819, for example, St. Louis enjoined butchers from selling "any blown stuffed unsound unwholesome tainted or putrid meat" (quoted in Wade, 1959, p. 81). Much of the early urban revenues came from the fees paid by stall owners and from the fines imposed on violators. Yet, the change toward a free-market system, where

goods could be bought and sold in all locales and for all prices, spread throughout American cities shortly after independence. Government regulation of the economy declined, thereby eliminating one of the major functions of early urban governments. What replaced these functions was a movement toward a "service" city in which the government increasingly took charge of a wide variety of service functions—especially safety, education, and infrastructure—as well as the tax basis to pay for these functions.

Safety The public safety functions of urban governments centered around firefighting and police services. In much of the uneteenth century, firefighting was done through voluntary organizations (in fact, the volunteer firefighter is still a stapte of many small towns). At most, the city government might provide a station and a stipend for the fire chief. In return, urban residents received uneven service, including numerous strikes and brawls among rival fire companies.

Police services were likewise composed of volunteer brigades. Constables were paid mainly to serve the coun, proffering summonses and the like They also responded to cruzen complaints and made money by arresting public nuisances. Volunteer might watchmen would patrol the streets after dark By the last half of the nineteenth century, however, both poace and fire protection had come under the authority of formal, uniformed organizations. Fire companies became hierarchical, professional, and technologically sophisticated. Police departments became proactive, seeking to prevent crime rather than simply to respond after a crime had been committed. Many daties of the new police forces, like animal control and health inspection, were later delegated to separate city institutions.

Education Education is today the largest expense of local government, dwarfing the other functions of the city Police and fire protection together cost less than one-fifth as much as elementary and secondary schools. Because education is so important, most cities and towns elect separate school bearus it is important to note that most of the operation and

financing of schools takes place through school jurisdictions that are independent of municipalities and sometimes cover a slightly different territory. Therefore, school expenditures are a smaller proportion of city and town budgets than of all local budgets.

Before the early a neteenth century, education was a private affair available to only the wealthy. Schools became public responsibilities only with the adventof compulsory and free education, and the burden fell on the shoulders of local government. Education was mangarated at both state and municipal levels during the early nineteenth century. Individual cities made the decision to estab sh sebool systems before the states acted. Cincinnati for instance, at first lobbled Ohio to institute a statewide system of education but ended up granting itself the authority in 1829. Such actions initiated the pattern of municipal, rather than state, coatrol of primary and secondary schools. Eventually, state governments mandated that all students receive some education, although they left payment and administration largely up to the municipalities. In 1851 Massachusetts became the first state to require free and compulsory schooling. State govcrimicats also because largely responsible for grablic higher education, establishing land-grant universities and normal schools to educate the educators

Infrastructure As we have defined it before, infrastructure refers to the basic facilities, services, and instal ations needed for the functioning of a community, such as transportation, communications, water and sewer systems, and power plants. Each of these needs is most apparent at the local level. and demands for each became more pressing as villages became towns and lowns became cities. For a small farming hander, a foot and bridle path may have sufficed for transportation, water and sewage needs could be accommodated by the nearby riverand communication was all face to face. But as communities grew and the technology became more essential and expensive, demand for infrastructure increased rapidly. We can see an example of this in recent history, as cellular telephones have necessitated the installation of cerular transmitters and the expansion of area codes.

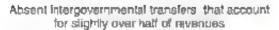
During the nineteenth century, the most pressing needs were paved streets and a means of getting water to the residents and taking sewage and other garbage out of the city. By the twentieth century, the needs had grown much more sophisticated and included electric power gnds, telephone wires, asphalt-paved streets and fust highways, and other resources that arban residents now take for granted. Some of these needs were met privately, or by publicity regulated but privately owned utilities others became the province of city governments.

The provision of these services came fitfully and was often in reaction to intolerable situations. For example, early cities often set out "streets" that were public rights of way and that were not to be encrosched upon, However, these were little more than paths, littered with animal carcasses, invaded by entrances to building cellars, dusty in dry weather and muddy in rain. Note, however, that except for the oldest cities, most American cities did develop a consistent street plan, usually a grid plan, that was an extension of the national survey of sections and quarter sections (Box 11.1). Maintenance was at first left. to private residents, but cities later began to pave their streets and to take responsibility for cleaning them, a though they differed (and still do) on how to pay for these improvements. Some cities established special boards to regulate street development, extension, and maintenance, later the states intervened to coordinate the street patterns across neighboring municipalities. In the colonial period, Philadelphia appointed surveyors and regulators to lay out and maintain streets. By 1891 the Pennsylvania legislature had extended this practice to the entire state. In New York City, the Commissioners Plan of 1811 divided al. of Manhattan into 155 east, west streets and 12 north-south streets. This occurred at a time when \$0,000 people were squeezed into the southernmost tip of the island. At times, state courts worked to circumvent a rational street planning process by upholding private property rights and allowing people to build in the middle of prospective thoroughfares. Nevertheless, street planning persisted as a means of crudely designing the city and as an expression of municipal ambition.

Water and sewer systems likewise developed in response to growing needs. The use of on-site cesspools, perhaps adequate in a lightly populated andscape, imperiled growing cities. The wastes often contaminated the water supply, which came from nearby wells and streams, "Night soi" scayengers, who made a living from carring off human fertilizer to nearby farms, could not keep up with the growing populations. Garbage accumulated on the streets, mixing with mud and horse manure By the mid-nineteenth century, cities began to plan caborate sewer systems that would drain and divert rain water into "water carriage" sewer procs-open-topped sewer pipes that could clean away water, animal carcasses, fecal matter, and other wastes-and then use gravity to direct the flow of wastewater out of the city

Waterworks were established in some cities (originally in Philadelphia), but were madequate to meet the cities' needs and were rarely truly sanitary. The need for clean water was brought home through the surveys done in London by John Snow that showed that cholera, one of the major scourges of nineteenth century arban life, was a product of contaminated drinking water. The early twentieth century saw the introduction of modern filtration systems, the expansion of reservoirs, and the provision of water directly to the home. By the turn of the twentieth century, city dwellers in the United States were far ahead of urbanites in Europe in their access to clean water.

Over time, cities have been either persunded or forced to add numerous new services to their existing load (Figure 11.1). Public health and public welfare, for instance, take a large slice of modern city budgets. Cities help to subsidize local hospitals, cope with substance abuse, pay a proportion of welfare, engage in pollution control, and huild and maintain some housing. Cities also work to promote their own growth through extensive redevelopment efforts. One of the most irritating trends, according to local officials, is the tendency of state legislatures, the federal government, and the courts to require that cities per form a function without giving them the money to pay for it. These are termed unfunded mandates.



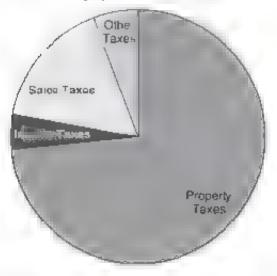


Figure 11.1 Local government expenditures, 2002. This pie chart shows how truch counties cities, towns, and other local governments spend on various services. Education accounts for a little over 40 percent of all direct expenditures. No other function accounts for more than 6 percent. Source: Authors.

Examples are a requirement that shelters be provided for the homeless or a law that all public buildings be made accessible to people with disabilities. All of these regulations are well intentioned, but all are quite costly as well, with the costs normally passed on to the locality.

Financing the City

Each of the needs of collective consumption led to the expansion of civic responsibility. However one of the paradioxes of immeripal governance within the United States has been that the necessary financial resources and authority of cities has lagged behind the demands annosed on claims. The U.S. Constitution endowed states with a tremendous range of powers, but cities are considered simply "creatures of the states." They have historically been limited in their ability to raise revenue. State governments could and did intervene in urban affairs, amend city charters, establish other public bodies with local authority (such as school

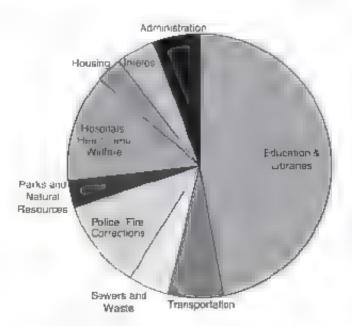


Figure 11.2 Sightly more than half of all local revenue comes from intergovernmental transfer. Of what is left, about three-quarters comes from property taxes. Sales taxes, income taxes, and assorted fees make up the remainder Source Authors.

districts), and limit the amount of axes a city could raise

The main source of revenue for mumcipal services was and is **property taxes**, a tax based on the assessed value of one's property, sometimes referred to in terms of a millage rate or one thousandth of the value. The advantage of this tax is that it is levted on very tangible wearth—real property—that could not be concealed and that has historically stood as an indicator of wealth. Today, property taxes constitute about three fourths of all local revenue that is raised in the form of taxes, after intergovernmenta, revenue is accounted for "Figure 11.2). However, these property taxes have long gone to school districts that are often independent of the municipal ties, as well as to counties. Property taxes constitute well over one-half of all revenue in cities and towns proper

In growing cities, the value of existing property is rarely sufficient to keep pace with needs, and state legislatures, political uprisings, and economic considerations have often limited the millage rate. One of the most profound changes came in 1978, when

BOX 11.1 STREET PLANS IN EARLY AMERICA

Until the mid-twenneth century, the grid was the dominant design for U.S. cities. In many respects it solted the American character. It was simple to demandate, easy to visualize, and could be extended to the far horizon. The grid, as used by Americans, repudated the closed cities of the Old World. Here the gnd was employed as a way to stretch a city out into the horizon in endlessity repeating lines. Land was plotted without much regard to topography. The grid passed across rivers, over fulls, on all kinds of land. From

New York to Los Angeles, on flat and ano hillocks, the gridbegan to characterize nuneteenth-century urban expansion

Several American cities did not begin with a grid however. The earliest cities, like Boston and New Amsterdam (later New York), often developed organically, with no intentional design. In addition, several cities were designed in a more claborate fashion. Philadelphia. Savannah, and New Havan were designed as a series of squares. These were meant to instill a sense of community.

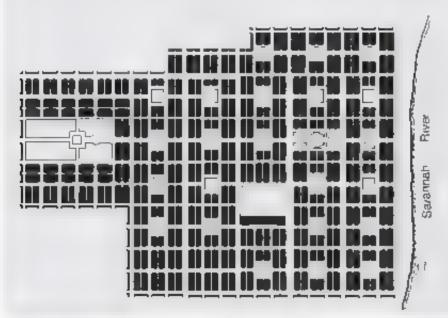


Figure 811.1 A view of colonial Savannah, Georgia. Source: Authors.

California voters approved **Proposition 13**, which limited property taxes to 1975 levels and limited annual increases to only 2 percent. Massachusetts voters went even further by approving **Proposition 2** ½ which limited the property tax to 2.5 percent of the assessed rate.

The hantation of property taxes as a source of revenue has forced manieiparates to find other sources of funding. One such source, sales taxes, has long been used to finance state governments. Local governments use these too often piggybacking their levy onto the levy imposed by states. Sales taxes are regressive in that they impose a greater hardship

on poor peop e than on the more affluent. Nevertheless, they are a fairly reliable source of income they affect everybody who buys goods within the municipality, and they can be supplemented with special sales taxes on hotels, amusements, alcohol, and other items. **Hotel taxes**, for one, are popular because they affect outs derived not voters.

City income taxes were rare before the 1940s but they have become quite a prominent source of funding in those cities that can assess them. Income taxes are often a flat percentage of one's income. In Ohio, for example, all incorporated managing from percent to more than 2 percent of all income. These

Savannah, Georgia, was made up of large squares or wards (Figure B. 1-1). Each of the wards han a 2-acre open space surrounded by house lots. To encourage compactness, readents were granted a lot "in towa," a 5-acre garden on the periphery and a 45-acre farm lot clearly outside the city However, they were expected to live around the central square of each ward. As the city grew, more wards were added, a process that continued until about 1850. This helped to retain a centralized form as the whole New Haven Connecticut, was receive established as a series of squares.

Philadelphia was set up on a larger sea e under the direction of William Penn. It was first divided into quadrants, and at the intersection of each quadrant was a large public square. The main street plan of the city incorporated a grid as well. But in this case the distances between the streets were established at an unwicidy 400 feet! These superblocks were soon carved up to allow for more development within the interior (Figure B112). In the process, much of the spaciousness of Penn's original plan was lost.



Figure B11.2 Plan of Philadelphia.

taxes are levied on city residents as well as on people who work in the city. Many states do not allow local income taxes, but these taxes have become a major source of financing for the 3,500 cities and towns where they are imposed. In such cities, local income taxes account for about half of all revenue.

Although taxes contribute to city revenues, they are not sufficient to finance city government and operations. Therefore the money has to be raised in a variety of other ways. Cities have long relied on grants from the federal and state governments or on revenue sharing of taxes like the gas tax. These transfers go under the heading of intergovernmental revenues. In 2002, they accounted for 40 percent of ali

local revenues. The problem is that this intergovernmenta, and is always subject to cuts from state and federal government, either for fiscal reasons (they become too expensive) or for ideological reasons. For example, in the early 1980s the Reagan administration deeply cut federal aid to large northern cities, often by as much as two-thirds.

The other way for cities to raise revenue, especially for major development projects, is through the issuance of bonds marketed to investors. These municipal bonds were infrated in the nineteenth century as a way for growing municipalities to create the needed infrastructure for more and more residents; to help finance big projects, such as streetcar

lines, port expansions, and integrated sewer lines, and to generally compete with all of the other cities and towns that struggled to be the biggest and the best. They continue to be a major source of urban funding. In 2002, for example, localities issued \$197. billion in new long term debt, with total long-term debt at nearly \$1.1 trillion. These bonds pay for convention centers, sports facilities, museums, and often anything that the city believes may be good for its long-run economic development. Investors are attracted to these manicipal bonds because they are tax exempt, meaning that myestors do not have to pay federal, state, or local taxes on the dividends. One danger associated with issuing bonds, for cities and investors alike, is that a city will default on its payments, although that has happened rarely.

Ideally, the revenues that local governments receive should be sufficient to pay for local expenses. In reality many cities have run into financial difficulties. Local governments cannot operate a deficit the way the federal government can, and when they run out of money they are forced to cut services. I infortunately, this happens most often in cities with the greatest need for acrivices, eities with a large number of poor residents, with severe public health problems, and with an aging infrastructure. We discuss this predicament later in the chapter.

WHO GOVERNS THE CITY?

Urban governance in the colonial and early post-independence era was largely undemocratic, similar to the European model. There was no initial aniversal suffrage. Only freemen, a status that had to be purchased, were allowed a role in government. A ruling council of six or so members was often instituted, and both officials and voters had to own property. City government was dominated by the wealthiest of residents—merchants with a strong business orientation—and functioned somewhat like a chamber of commerce for mercantile interests. Juxtaposed with this were the beginnings of a strong American countercurrent of populism. In his book, A New England Town, Kenneth Lockridge (1970,

describes how residents of Dedham, Massachusetts, began to circumvent the authority of the official selectmen by making more of their decisions in the town meeting, run by a moderator who was not necessary a selectman himself. The push toward democracy in governance at all scales was singled out by de Tocqueville in his book, Democracy in America. This ideological thrust exerted a constant pressure on American cities.

Although wealth always conferred major advantages to arban politics, this overwhelming predominance would change over the course of the macteenth and twentieth centuries as ethnic politics, interest group politics, and machine politics brought other perspectives to the table. In the early nineteenth century, suffrage was extended to all white men. After the Civil War, African Americans were granted the right to vote, although this was not truly in effect everywhere until a century later. Female suffrage was delayed even more, until the ratification of the 19th Amendment in 1920. Urban government was likewise opened up as old city charters were revised to reflect changing circumstances.

Stages in Urban Governance

There were several stages of arban governance in the United States. Here we focus on four major stages, elite dominance, machine pointies, reform politics, and professional politics.

Elito Dominance In the first stage, cities were run by an el te—first patricians, by virtue of birth and breeding, but later simply those who achieved commercial success. This elite dominance lasted from the Colonial era into the mid-nineteenth century for most Northeastern and Midwestern traces and into the twentieth century within the urban South. The essential aspect of this type of governance is that government was run by the property-owning upper class, with little interest in accommodating the needs of poorer residents or immigrants, many of whom were not allowed to vote

Machine Politics The mid-mineteenth century witnessed the growth of the political machine,

especially in the Northeast and the Midwest. This second stage of urban governance—machine politics—consisted of a strong party organization that generated votes for favored candidates. The party would dose out favors—sometimes actual cash sometimes patronage jobs, sometimes bail—in return for votes. Those people who did not vote correctly would be denied whatever the city might provide, especially services.

The machine had three especially important characteristics. First, the machine was hierarchical, with a clear teadership and organization. Each city had a strong party boss, a man who operated behind the scenes and often did not serve in a formal position. One such boss, William Marcy "Boss") Tweed, the head of the Tammany Hall organization in New York City, was the favorite foil of cartoonists like Thomas Nast. But there were other bosses in cities throughout the industrial North. In recent years the first Mayor Richard Daley of Chicago acted much ake a machine boss.

Second, the machine was populist, meaning that appealed to the interests of the lower classes. Votes were votes, and it was easter to corral the votes of newly enfranchised ethnics and poorer residents than it was to gain support from the city elite. The machine delivered a slew of favors to the poorer residents in return for gratitude and votes. For example, at a time of widespread anti-Catholicism, they provided money to the Catholic Church. Immigrants were especially grateful for help in finding jobs and housing and in becoming citizens. Of course, it helped that many of the machine's fiercest opponents were clearly nativists who felt the United States would be better off without new arrivals.

Finally, the machine was territorial. The city was divided into wards, precincts, and blocks, and the machine would place personnel at each level. These party workers, termed block captains, precinct captains, and ward leaders, would minister to the needs of the residents and on election day would make sure that everybody voted. Before the introduction of the Australian ballot—where votes could be cast in secret—party voting was easily identifiable.

The era of machine politics lasted for a long time. It was also clearly tied in with the introduction of ethnic politics in American cities, as immigrant groups matured and began to take the reins of power. The Itish especially, but also the Italians, the Jews, and some Slavic groups ran the city for their own benefit.

Reform Politics Even today some machines may be said to exist, albea in a much weakened state. The reaction against machine politics, which tended to be secretive, undemocratic, and corrupt, led to the era of reform politics. The major tenet of the reform movement was that cities should be run by expenienced administrators who applied scientific management techniques to serving the public interest. The kind of back rubbing, log-rolling politics of the past was not good for the city as a whole and therefore needed to be swept away. A lot of different reforms were actually made in cities throughout the country. Among these were at-large elections, non-partisan elections, and the council manager form of government.

- At-large elections. Iraditional mother politics had eites divided into wards, each of which elected a representative, councilors, aldermen, selectmen, in contrast, reformers felt that a city wide election of every council member would better reflect the city's overall interest and would provide the city with the best representatives, regardless of where they lived. Today, most cities have at least some of their representatives elected at large. The problem is that such a system dilutes the influence of geographically concentrated groups. Minorities and the noon tend to inhabit certain parts of the city, and they have a great deal of difficulty electing people who represent them in an attaige system. Studies have shown that blacks, for instance, are far less likely to be elected under such a system.
- Nonpartisan elections. Although machines tended not
 to be ideological, they were based on a party, and vot
 ers were expected to vote for the party and not the man.
 To counter this practice, some reformers did away with
 partisan labels so that candidates would stand on asses
 alone and voters would form judgments based on the
 candidates' merus. Today, about three-fourths of arbaic
 elections are officially nonpartisan. One problem with
 nonpartisan elections is that they may actually lead to

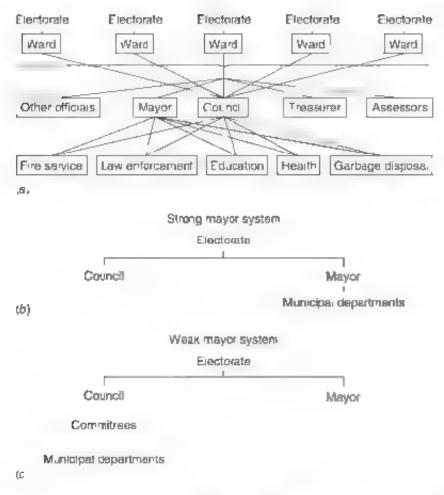
- tess emphasis on issues because candidates rely on saturation advertising and name recognition. Their stand on issues, for which a party label could provide some clues, may be unknown. Other factors, age the ethnicity of the candidate may play a disproportionate role
- Council manager form of government. There are several forms of local government (Figure 11 3). Strong mayor systems piace all control over city administration in the hands of the mayor Weak mayor systems. yield more control to the city council, Commissioner systems, which are often found in courties, enablish separate administrative officers and place these under an elected commission. One form, the council manager form of government, was instituted as a type of political reform. This system introduced a city manager, a professional appointed to head the city services and administer. inws passed by an exected city council. A large number of cities moved to this form of government and still subscribe to it. The hope was that such an administrator. would start ideology and favoritism. The disadvantage is that the city manager often becomes a very powerful figure in his or her own right, but is not directly accountable to the voters. It is difficult for city councilors, who often serve part time, to successfully oppose a persuasive munager

One overall problem with these reforms is that they appeared to shift power away from the peop e and toward a mentocracy. In essence, they could be seen as a continuation of the style of governance that marked the era of cate dominance. Although andoubtedly corrupt, machine politics did distribute municipal resources to the poor. Neighborhood voting produced candidates who reflected the interests of neighborhood residents and often fought to keep these interests alive. Beneficiaries of at-large elections were those extizens powerful enough to equate their interests with the city's jaterest. Thus, professtonal administrators might think it expedient to tear down a neighborhood to make way for a new highway, something that was hard to accomplish when every neighborhood had a voice.

Professional Politics The modern era of urban politics corresponds with the rise of professional politics, at least in big cities. More and more, politics has moved from the "retail" style of knocking door-to-door (or getting people to knock door-to-door for you) to the "wholesale" style of advertising on broadcast media. Candidates must be telegenic, glib, and able to raise prodigious amounts of cash. Cities of the modern era have also been forced to deal with a large set of problems. The United States has become a suburbun nation, and the big cities are just the central unchors in large metropo itan areas that exceed the city in area and population. The problems found in big cities may not be any bigger than problems of the past, but cities feel an obligation to deal with them lest they lose even more businesses and residents to the saharbs. Moreover, the cities are more connected to and dependent on political currents at the federal and state levels, and urban politicians must know how to get money from the federal government.

Power in the City

Students of urban politics have long debated the basis of urban power, especially in the modern city. Blatant manifestations of power, from business elites or political machines, have given way to a more subtle type of politics. But this does not mean that certain merests are not served. We can look at the urban order (to use geographer John Short's [1996] terminology) as composed of three sets of important play. ets, households, businesses, and the local state. The households are the untimate authorities as voters who elect the city leaders and as residents who use the city services. Basically, they desire maximum services for the minimum of taxes and fees. Businesses are essential to the economic base of a city, providing jobs and paying for much of the costs. They often profess a desire to be left alone, especially from what they perceive as operous regulations and, sometimes, an "antigrowth" and "antibusiness" attitude At the same time, however, business interests also seek govemment help in the forms of expanded roadways, quality schools, better fire and police protection, and the other services they see as beneficial to their operation. The local state plays a role as both a player in its own right, trying to serve the interests of the entire city, as a referee among competing interests in the city, and as one component of the overall machinery. of government with very real limits to its authority.



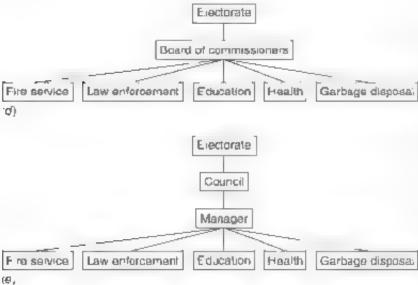


Figure 11.3 Types of local governments. The United States contains five basic local government types. (a) A mayor-council form, where top administrative officials are d-rectly elected. (b) In a strong mayor system, the mayor appoints the heads of municipal departments (c) In a weak mayor system, the council controls these departments. d) A commission form, where an elected committee of apwards of three commissioners appoints the department heads. e, The counc -manager form entails the hiring of a city manager who reports to the council but ends up running the day-to-day business of the city Source Short, 1996. Reprinted with permission of John Wiley & Sons, Inc.

Three basic theories concerning the sources of power in modern cities have been proposed the elitist theory, the plyralist theory, and the regime heory. The elitist theory argues that urban political decislons are made by a relatively small number of select individuals. Power is concentrated among this group, who normally come from the business establishment. a though other sectors (such as universities and big nonprofits) may also be represented. Aithough this elite may not be able to sway the voters, they can help frame what sorts of issues get discussed in the first place. They are also able to out favorable deals with city officials. One well known study of Atlanta, conducted in 1953 and 1980 by Floyd Hunter, showed that 40 individuals essentially controlled what transpired in the city. Many of these influential leaders were business owners, leading to a conclusion that the local state served as a handmaiden to powerful individuals and specific businesses.

The pluralist theory disputes this assertion of power concentration, instead, it argues that power is distributed among several different groups. Business interests, of course, have great resources and influence, but they are often divided internally. Other interests—ethnic groups, labor unions, religious groups, neighborhood residents, and special interests share power and are able to bring some weight to the final decision. Robert Dahl's 1961 study of New Haven, Connecticut, showed that different people had influence on different issues and that only the moyor and redevelopment director had power in more than one sphere. The local state is more of an arena within which interests compete, and all interests are allowed to participate

The third theory centers around the concept of a regime a relatively reformal but stable grouping made up of private and public individuals who are at the center of most decision making **Regime theory** argues that each city generally has one such regime that has the capacity to act and accomplish key goars. Asthough business interests dominate the private fraction of the regime, public partic pation plays a role. This is not the kind of overwhelming power described by climit theory for two reasons. (1) This group can rarely dictate everything that takes

pasce and must operate within a broader political environment, and (2) depending on the city, regimes are composed of a more heterogeneous mix of interests including minorities, neighborhoods, and organized labor. Nevertheless, regime theory differs from putralist heavy, in which power is diffused. Although other actors can sometimes hold sway and participate in decisions, urban political power is clearly pooled in the dominant regime. However, the nature of the regime may vary, depending on what the chief objectives are

Regimes act for specific purposes maintaining the status quo, attracting more business and industry, creating a more equitable society. Polytical scientists Gerry Stoker and Karen Mossberger (1994). have adentified an organic regime as one that seeks to keep things the way they are. This is mainly possible within more homogeneous, smaller communities that feel fairly satisfied with the status quo. An instrumental regime coalesces to accompash a partrealarly big project or a string of projects. In the 1980s, for example, many big cities sought to redevelop their downtowns through constructing massive civic projects and attracting private capital Instrumental regimes are made up of people who feel that this development will benefit themselves, as well as people who see such development as promoting the general public interest. These regimes have also been termed growth coalitions. Some cities and towns have been guided by a symbolic regime, a coalition that looks to alter the city's image. Sometimes the alteration is toward more revital zation and more growth. In this respect, there is an altempt to create more of an urban "brand" that will succeed in better positioning the city among its competitors Other times the goal is turning toward environmental, preservationist values. Such regimes have emerged n a number of towns and suburbs that seek to mitgate the effects of excessive growth. Over the long term, they are hampered by the opposition of many business interests and the realization that a perceived negative attitude toward growth may drive businesses. and the tax base out to the suburbs. European cities are more akely to be dominated by a progressive symbolic regime.

CONTEMPORARY FRAGMENTATION IN THE METROPOLIS

Jrban geographers are especially interested in issues of urban or metrope tan fragmentation. Complexity has grown as cities have grown, as urban regions have stretched far beyond municipal lines to include more and more rings of suburbs. Today the central cities and the suburbs that surround them are tied together loosely by the same history, a common economy, a metropolitan designation, and a perception of being part of the same urban region. Whereas people once hailed from the city of Chicago, they are now more likely to tye in "Chicagoland," a vast complex of towns, small cities counties, other urbandistricts—all anchored by the central city of Chicago n the United States we term such regions metropolitan areas, and we draw tines to demarcate them. This general process of suburbanization, discussed earlier. in Chapter 5, is common to most cities throughout the world but is more advanced within the United States than in any other country.

Cities are prone to some degree of fragmentation. Much of the material in this textbook is devoted to how cities are divided on the basis of economic functions, investments, housing quality, sociagroups, ethnicity, and the like. Suburbanization and the growth of complex metropolitan regions have overlaid a great deal of political fragmentation on top of this existing fragmentation. A metropolitan orban region may contain hundreds of different local governments that share certain interests but differ in other respects. The political separation is also fiscal, because each local government is required to provide services and is endowed with the capacity to generate revenue. The types of services required and the amount of revenue that can be generated differ widely

Many of the best recent books dealing with metropolitan fragmentation have been written by urban politicians. One such individua, Myron Orfield has represented a Minneapolis district in the Minnesota state legislature. In his book, Metropolitics (1997), he asserts that fragmented communities "concentrate the social and economic needs of the

region on the weak resource base of the central crues and inner suburbs, those least able to resist" (p. 74). Another close observer of metropol tan fragmentation is David Rusk, former mayor of Albuqueroue. New Mexico In his 1993 (2003, book, Cities without Suburbs, Rusk paints a picture of "inclustic" cities that are unable to expand and are hemmed in by competing saburbs in this situation, the "very fragmentation of local government reinforces racia, and economic segregation. Rivalry among jurisdictions often inhibits the whole area's ability to respond to economic challenge" (p. 47). For both of these politicians, the solution is the creation of a single, overarching local government. Orfie[†]d advocates a two-nered regional metropolitan government, while Rusk promotes the value of elasticity—the ability of cities to annex surrounding land, thereby keeping suburbs within the city jurisdiction. We look more closely at these and other solutions later in this chapter

Increasing Fragmentation

That there has been an increase in metropolitan fraginential Julia largely indisputable. This process is not primarily the result of the shearing off of parts of existing cities. Rather fragmentation can be traced to three main developments. (1) the physical expansion of incorporated suburban maincipalities, and (3) the growth and variegation of service delivery areas. Taking a look at the United States as a whole, there were 89,004 governments as of 2012. Of these, 3,031 were counties (Table 11.1)

When we examine the process of political fragmentation more closely, a few arends become apparent First, the number of school districts declined by almost 90 percent. The 1940s, 1950s, and 1960s witnessed the establishment of large regional school districts, often in rura, and exurban areas. The idea was to increase economies of scale by allowing the creation of large new high schools and the primary schools to feed into them. In this sense, there was a tendency away from fragmentation and toward more consolidation. Second, the number of incorporated municipalities increased, largely at the expense of townships. Laws

Table 11.1 Types and Numbers of Governments in the United States

Type of Government	2015	2002	7991	7582	1972	1902	1932
Tota	89,004	37.900	86.743	81,831	78, 169	91.236	116,805
Federal Government	1	1	1	1	1	1	4
State Governments	50	50	50	50	50	50	48
Local Governments	88,953	87,849	86,692	81,780	78,218	91,.85	116,756
General Purpose							
County	3.031	3.034	3 043	3,041	3.044	3.043	3.052
Subcounty	35,886	35 937	35 962	35,8 0	35.508	35 41	34,009
Munic pa.	9.522	19.431	19.296	9,076	18,5.7	17 997	16 807
Township	. 6. 364	16,506	16.666	.6.734	16.991	17 .4+	17,202
Special Purpose.							
School district	12,884	13,522	14 556	14,851	15,781	34 678	67 355
Special district	37 203	35,356	33,131	283)78	23.885	18,323	12,340

Sources http://www.census.gov/govs/www/cog2002.html and http://www.census.gov/govs/gov

vary by state, but in most places it is impossible for a central city to annex an incorporated municipality without a inutual agreement. The proliferation of incorporated municipalities began in the late nineteenth century Cook County which includes Chicago, went from 55 incorporated municipalities in 1890 to 109 in 1920—and the trend proliferated. By 1930, all state legislatures 'put the decision of whether suburbazites would or would not be annexed by the central city firmly into the hands of those who had already fled the city" (Judd and Swanstrom, 1994, p. 218). Conditions came to a point where some independent localities developed as ax havens. In Los Angeles County, for instance, the City of Industry was formed in the 1950s by a group of industrialists who wished to avoid paying for residential services.

By 1992, the average number of local governments per metropolitan area had risen to 90. This growth, although modest at the national scale, was often quite dramatic and variable in particular metropolitan areas. By the 1980s, for example, the Chicago area included some 1,250 local governments. Data from the 1990 Census showed that metropolitan Detroit had 338 suburban governments, by the year 2000, the city government of Detroit proper governed about one-quarter of the entire metropolitan population

Third, the largest increase came in the growth of special districts, which increased by four times over the period from 1942 until 2002. These include park

districts, fire districts, housing districts, and sewerage water districts. The boundaries of these special districts do not need to coincide with municipal or township boundaries. For example, nearly half of Chicago's local governments are actually special districts, more than the number of townships, municipalities, or school districts.

But clearly the greatest contributor to metropolitan complexity lies in the expansion of metropolitan areas. The push to suburbanize has been intense In the nineteenth century, as cities increased in population, residents moved further and further out. In addition, it often resulted in the extension of the physical boundaries of the big cities. Thus, Boston annexed Roxbury, Dorchester, and Brighton, New York annexed Brooklyn and Staten Island: and Cleveland annexed Ohio City, Glenville, East Cleveland, and West Cleveland, Although annex ation continues in many cities, for many others metropolitan expansion has far outstripped central city governance. Beginning in the early twentieth century, each generation has constructed a ring of suburbs such that a modern metropolitan area resembles a pinwheel with the central city at the very center of a swirl of prewar, postwar, 1960s. 1970s, 1980s, 1990s, and 2000s suburban municipanties.

Political fragmentation within the metropolis takes place under a fair degree of economic integration. Cities and suburbs exist within a single metropolitan economy. Generally speaking, their

fates have been intertwined. As a recent book has argued, "there is an underlying local economic region of which the city and suburban governmental. jurisdictions each comprise only parts" (Barnes and Ledebur, 1998, p. 40). Over time, however, the relationship between city and suburban income has changed dramatically. In 1960, cities were slightly wealthier as a group than the suburbs, By 1990, average city income was only 84 percent of suburban of suburban income data from Barnes and Ledebur, 1998). Newer data suggests that by some income measures, the city-suburban income disparity has narrowed as cities enjoy better walkability, downtown attractions, and new condominium constructions. The relative rise in city incomes can be healthy for the entire metropolitan area. Data derived from the 2000 census suggests that metropolitan areas with smaller disparities tend to enjoy more robust employment growth than metropolitan areas where suburbs are far wealther than the metropous as a whole

A Positive View of Metropoliton Fragmentation

The two public officials quoted previously—Myron Orfield and David Rusk—belp to make the case against excessive metropolitan fragmentation. Indeed such views have been most vocally expressed by concerned politicians as well as by academic social scientists. Because these experts have assembled a great deal of information, we will spend some time examining their case against excessive fragmentation. It would not be fair, however, to ignore those people who believe that metropolitan fragmentation, of the sort found primarily in the United States but also elsewhere, can have positive implications

One approach that advocates fragmented government may be labeled polycentrism. Overarching this perspective is the belief that hig metropolitan scale governments can become remote and unresponsive to local interests. A cruzen is likely to be more successful fighting city had if the city is small Moreover anyone who has dealt with a vast urban bureaucracy knows that its size and complexity can be intimidating. Councilors may be responsible to tens of thousands of constituents, services are

arrayed within hierarchical agencies, and citizens may have trouble just finding the right person to talk to in order to register a complaint

A related point is that a greater number of subor ban governments present people with greater options for where to live. The Tiebout hypothesis, named after economist Charles Tiebout, maintains that people seak a better fit between their tolerance for times and their demands for services. The choice of a community can be seen as a market decision. Some communities may offer more services, albeit at the cost of higher tanes, whereas other communities offer fewer services and lower taxes or perhaps some other trade-off, like the presence of a revenue-generating convention center or shopping mall. Young singles and the elderly may care little about the schools and choose not to live in communities that offer and pay for quality public education.

Political or lifestyle arguments can be made for multiple municipal choices as well. For example, the incorporated city of West Hollywood, Ca. forma, is dominated positically by gay men and lesbian women. As a result, gays and lesbians throughout the Los Angeles metro area can choose to live in a community whose laws, public officials, and services will be friendlier to their lifestyle (Figure 11.4). Other communities, like Monterey Park, cater to residents who are ethnically Chinese. The list goes on Pick any

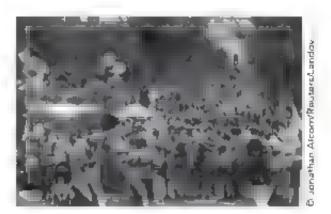


Figure 11.4 West Hollywood, California (in the Los Angeles basin) is one of the first cities run by an openly gay administration. This photo depicts the annual lesbian, gay, bisexual and transgender pride along Santa Monica B vd.

BOX 11.2 Technology and I rhan Grography

NETWORKING COMMUNITY

Computer technology has been touted as a way to improve preductivity, find quick answers to questions, and to engage with the wider world of information. But can computer technology help to enhance a sense of community? This issue has gained additional salience as observers have noted an increased isolation among families within modern cities. and a decline of what we might consider "community" There were also some fears that computer technology rather than aiding community, might in fact weaken it, summoning up visions of people isolated with their laptops and refuctant to engage people in the real world.

A number of communities are putting these notions to the test with the introduction of community networks, often placed within a subdivision, a set of buildings, or a small town. The value of these networks (often termed an atranet is that it betps to ank together all members of the commumay providing a cyber alternative to a physical community forum. It also becomes part of the promotional material of the community as well, promising a convenient source of information and input, all accessible via the family room.

Several studies have been conducted on the value of community intraners around the world. One study by Alladi Venkatesh and colleagues examined a networked community in Orange County, California. This study showed that the community intranet served several roles. It was a central clearinghouse for announcements about community events, garage sales, and information from the localschools. It provided a meeting ground for people who might have shared interests, furthering different groups and social clubs. Finally, it provided a forum for community views and exchanges. Members could air their views about everything from "trash collection to more serious problems." concerning truffic congestions to the planning of the next shopping mall" (Venkatesh, Chen, and Gonzales, 2003).

The use of this intranet varied, as might be expected, but A seemed especially useful for stay at-home mothers and working women who were more likely to at lize the public forum aspects of the community intranet

Probably the most comprehensive study has been conducted by urbanists Keith Hampton and Barry Wellman (2003) looking at the pseudonymously named "Netville," a suburb of Toronto (Figure B113) Survey research and participant observations indicated that the presence of a community intranet had a substantial effect on neighborhood interaction. Residents who used the intranet developed. more ties with neighbors, people were more likely to sit on their front porches (despite most having spacious backyard pation) to watch the street, and neighbors often pursued topics first broached on the intranet. The intranet also became a forum for political action, reducing the barriers that busy suburbanites often experience. In sum, the use of comminity intranets help to enhance the sense of community.



Figure B11.3 Welcome to "The Smart Community." Source Image © Hampton, Keith and Barry Wellman, 2003. This materia, is reproduced with permission of John Wiley & Sons, Inc.

large metropolatan area, and you will find clear variations in the character of the surrounding suburbs.

Even without this kind of variety, polycentrists argue that smaller communities provide a more personal touch. People have a greater voice in how government is run, and local government officials are more attuned to the needs of the people they serve. Some communities have gone so far as to establish a computer network linking all residents together (Box 11.2). Metropolitan fragmentation combines the interpersonal advantages of living in a small town with the benefits of residing within a big city. It is a win win situation, according to the polycentrists, which is why people have consistently chosen this path through their residential choices, by voting against annexation, and through efforts to preserve local autonomy.

Finally, many observers of America's new municipal geography have noted the emergence of edge cities (first discussed in Chapter 5). These new urban forms are often found outside the central-city boundaries, within neorpocated suburbs or unincorporated county lands. The prosperity and capacity of edge cities have come to overshadow that of the traditional downtown, Proponents of edge city development, including those helping to build these complexes, feel that fragmented governments serve the logic of edge cities better than would a single consolidated government, which may be tempted to impose more rules and regulations

Fiscal Disparities

Although metropolitan fragmentation has its proponents, it has also been decried for a number of reasons. These criticisms take many forms, but one factor that comes up repeatedly in various arguments is fiscal equity. As we discussed earlier, local govertiments are capable of assessing taxes. The problem is that they vary in their tax base, which refers to all of the taxable property within the local boundarnes. It may also refer to sales receipts if the locality. is given a share of sales tax revenues, or income if a local meome tax is assessed. Other taxable items. may be included as well. In most cases, however, property taxes are the dominant source, providing about three-quarters of local tax revenue. The tax base is important because it represents the "principal" or "wealth" from which revenue can be generated. Obtaining the same amount of revenue from a small tax base as from a large tax base requires a higher tax rate, or the percentage of the base (be it property, income, sales, or whatever) that is assessed. Localities with large tax bases are able to offer their residents a lower tax rate. Conversely, localities with a lower tax base must assess a high tax rate in order to receive the same amount of revenue

What accounts for differences in the tax base Inmost places, the key factor is property values. Expensive housing generates much more revenue than moderately priced housing. A fully developed community enjoys higher property values than a community with a lot of undeveloped land Localities also rely on taxes generated from commercial and industrial property. Factories, warehouses, stores, offices—all of these are subject to taxation. Clearly, more revenue will come out of places with a lot of nonresidential activity. Vacant storefronts, empty offices, and industrial "brownfields" (sites where factories were once located but that, because of cleanup problems, are difficult to reuse procure no revenue (Figure 11.5). In some instances, commercial and industrial property is also taxed at a higher rate, which creates an even greater advantage to certain localities.

The differences in property values are one source of the fiscal megumes between central cities and sugrounding suburban communities (Figure 116) In Minneapolis St. Paul, the affluent southern and western suburbs enjoy a tax base that is one-third greater per capita dian those of the two central cities, the inner-ring suburbs and the working-class suburbs. The Twin Cities have worked to reduce such disparities. The lower per capita property value can put central cities at a disadvantage. The simple dichotomy between poor central cities and rich suburbs masks a great deal of complexity. Remember, though, that historically central cities and their centra, business districts enjoyed high property valaes, mostly because they contained high-rise office buildings, luxury apartments, and the like Several downtowns still enjoy this advantage; downtown revivals during the 1980s and 1990s led to a major enhancement in property values and helped to anchor city-wide fortunes, Orfield (1997) has argued that the major discrepancies do not always exist between centra, cities and suburbs. Rather, the inner-ring suburbs, with declining tax bases and no large commercial centers, often get the worst of the deal. Often the worst off areas are suburbs with a declining tax base and few assets. Camden, New Jersey, Chelsea, Massachusetts; and East Cleveland, Ohio are among



Figure 11.5 Older industrial cates have been forced to contend with the declare in their industrial base and also the fact that factory land in often not safe for other uses. Brownfields-vacant lots where factories once operated-need to be cleaned and decontaminated before they can be used again.

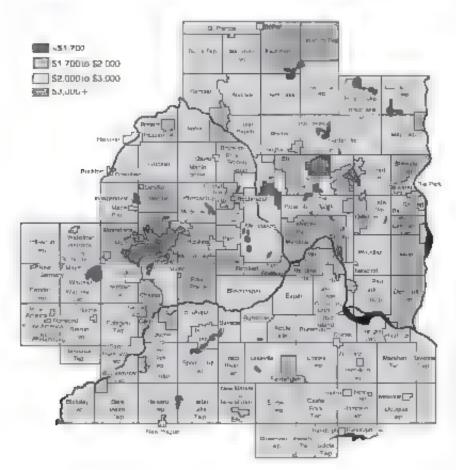


Figure 11.6 This map shows fiscal inequities within the Minneapous-St. Paul MSA. The effective net tax capacity is the potentia, tax revenue from a community's property and base after any fiscal disparties or distribution are accounted for Inthe southwest suburbs that Myron Orfield calls "the favored quarter," effective net tax capacity is high. In general, the tax capacity in the cities is lower Source: Orfield. Мутов, 1997



Figure 11.7 Some of the worst bught is found outside of major cities, in poor suburbs. This picture shows a scene from Easy St. Louis, 10 noisy a suburb of St. Louis.

the fiscally worst-off places in the United States. Consider East St. Louis, Illinois (Figure 11.7)

The city, which is 98 percent black, has no obstetric services, no regular trash collection, and few jobs ... Only three of the 13 buildings on Missouri Avenue, one of the city's mair thoroughfares, are occupied..., Fiscal shortages have forced the layoff of 1,170 of the city's 1,400. employees in the past 12 years. The city, which is often unable to buy heating fuel or toilet paper for the city hall, recently announced that it might have to cashier all but 10 percent of the remaining work force of 230 In 1989, the mayor announced that he might need to sell the city hall and all sex fire stanous to raise needed cash . East St. Louis is mortgaged into the next century but has the highest property tax rate in the state (Kezol, 1991, p. 8)

The list goes on, no garbage pickup, dysfunctional sewers, hemorrhaging budgets for police and fire projection, and a city tectering on the edge of bankruptcy

Although worlds away from the distress of some inner-belt suburbs, the rapidly urbanizing places on the metropolitan fringe prompt some of the biggest demands for services, which can create fiscal problems of their own. New residents require new schools, new infrastructura, and greater protective services. People may be unwilling to pay for these services artially, but they do pay eventually. Studies that

measure the revenue and costs associated with each type of development have shown that the costs associated with new housing usually end up exceeding any revenue gain (see Chapter 12).

The other major aspect of fiscal inequity is a differential need for services. Central cities tend to include the metropolitan area's poorest residents, have the most difficulty with crime, and are likely to suffer an aging infrastructure. Moreover, central-city schools—a huge consumer of local monies—are burdened with these same problems of poverty, crime, and a substandard physical plant. Greater service needs including we fare spending police protection, street and sewer maintenance, and education, require more funding. It is often for these reasons that big central cities need more money relative to their population.

The combination of the differences in the tax base and the differential needs for services creates a situation of metropolitan polarization between resource-poor and resource-rich manicipanties. Manicipanties with a low tax base and a high need for social services must beg for more money from the state. They are generally unpleasant places to live because the strain on the budget makes it extremely difficult for them to provide the basic necessities, much less to afford luxuries like park maintenance or extracurricular activities.

Towns that enjoy a high tax base and a low need for social services can be good places to live, providing their residents with a lot of extras. These dispanties lead to the flight of middle- and high-income residents—those with the ability to make housing choices—from poor municipalities to wealthy municipalities. Low income residents, however, have no choice but to remain Businesses also move and take with them the riproperty tax dollars, which only serves to further increase polarization. Suburban communities may also use exclusionary zoning, discussed in Chapter 12, to keep out certain groups of people

COUNTERING THE FRAGMENTED METROPOLIS

Several efforts have been made to reduce metropolitan fragmentation or to at least alleviate some of its worst effects. Here, disagreements often erupt because all types of coordination generally correspond with some loss in local control. Wealthy communities, for instance, may be less willing to cede autonomy to a large organization if it means that they lose some of their fiscal authority. Subtribution communities often see the central city as a threat to their autonomy and may rightly believe that the big city will dominate any metropolitan organizations.

At the same time, all communities need to work together at some point in time for mutual benefit. Several projects that aid the economy and accessibillty of all communities, such as airports, need to be handled at the metropolitan level. Likewise, the expansion of highways or other types of transit, such as commuter rail, need to be undertaken with the agreement of all affected communities, or else the project will simply fast Even if they are not politically united, metropolitan regions operate as a single economic entity and so need to coordinate policy to pursue particular goals. Likewise, metropolitan communities are also mutually affected by environmental decisions. Among these are the location of fundfills and toxic dumps, watershed issues, and air pollution. So they need to coordinate on this basis as well

Annexations

Several methods exist to counter metropolitan fragmentation, but the most simple is annexation. American occurs when one municipality adds another incorporated municipality or unincorporated land to its territory. In the United States, either long relied on annexation in order to ensure that their political reach extended as far out as their rapidly expanding population. A look at any state or metropolitan map confirms the legacy of past annexations: a region's major cities are generally much larger in area than the other towns and cities. They achieved this size through annexation.

There is a great deal of variation, however, among cities in terms of their areas. The most populous city, New York, grew rapidly in the nineteenth century and was able to annex significant territory, in effect combining the territory of five courties. Its area of 308 square miles is large, but it is smaller than the areas of Los Angeles, Houston, San Diego,

Phoenix, San Anionio, Dallas, Indianapolis, Jacksonville, Nashville, Oklahoma City Kansas City, Anchorage, Chesapeake, and Augusta. Ail of these are significantly smaller cities than New York, some only 1/40th the population size! You may also notice from the above list that, with the exception of Indianapolis, almost none of these territorially large cities are located in the Northeast or industrial Midwest. It is mostly the newer cities in the South and West that have successfully expanded through annexation. As a result, they have kept better pace with their expanding population. The older cities in the Northeast have not been able to expand, and, as a result, they capture a smaller percentage of suburban growth.

Elastic Cities David Rusk (2003), the former mayor of Albuquerque, New Mexico, has hypothesized and provided evidence that "old cities are complacent-young cities are ambitious." He argues that annexation is the single best way for cities to remain fiscally healthy and economically prosperous. He contrasts elastic extres that can continue to names, with inclustic cities that can no lunger annex and so are severely underbounded. By elastic cities, he means cities that have expanded their city. amits aggressively through either annexation (e.g., Houston, Columbus, and Raleigh) or consordation (e.g., Indianapolis and Nashville) with their home countries. In contrast, inelastic cities (e.g., Detroit, Cleveland, and Milwaukee) "did not budge their city limits." Because elastic cities expand their city amits, they capture suburban growth. In contrast, nelastic cities contribute to saburban growth. Rusk further argues that all cities were clastic in their youth, but that several cities have lost the capacity to expand. Rusk designates a city by levels of elasticity zero, low, medium, high, and hyperelasticity. Each level is a function of the degree to which a city's boundary expanded and the city's density levels. Table 11.2 shows some of the differences among these types of cities. Rusk further argues that higher levels of elasticity correspond with higher levels of job growth and a better bond rating, meaning better fiscal health. A city such as Tucson, Arizona,

Table 11.2 How Annexation Strategy Affects the Characteristics of Circs

Type of	Meta Population widou Central	City Density	Change on Area %.	Average S c	City Suburban Income	Manufacturing Job Gro-th %	Non-manufacturing Job Grov th %
Elasticin	Car G	7950	7v50-2000	12000m, sq	Robe 3	1469-1449	1369-1999
Zero elasticity	25	12,720	1	58	68	446	56
Low elasticity	28	6,879	21	84	78	-23	92
Medium elasticity	33	5,280	193	79	89	28	177
High elasticity	36	4,822	342	146	97	18	168
Hyperelasticity	54	4.779	944	145	102	64	194

Source Rusk, 2003

Examples Zen etisateit. New York, Chicago Bosion San Frank ser. Cleveland: Lan ematicity. New Orients, Sentite. As an in. os. Angeles. Medium etisateits. Denver. Charlotte. Madison. Portaine. OR): High etasticity. San Aniomo, Phoenia. San Jose Lanca n. Hyperetasticity. First Worth, San Dirego, Houston: Anchorage.

while bemmed in somewhat by federal and Native American lands, has plenty of room to expand its municipal boundaries and continues to map out new pathways of growth (Figure 1.8)

It is probably accurate to say that, given the choice, most cities would prefer to expand their termory. This would enable them to capture a more affluent tax base. What stops them are the desires of suburbs to maintain their autonomy and the policies of state govgraments, which have been notably stingy in allow ing annexation to proceed. For example, most states mandate that the annexation of another incorporated area requires the consent of both jurisdictions, usually in the form of dual referenda. This requirement, combined with the ease by which suburbs can incorporate, means that caues can quickly be hemmed in by incorporated manicipalities. For cities surrounded by unincorporated land, annexation is generally easier. Here again, state laws vary. In many states unincorporated lands can be annexed by the city without the approval of the residents of the territory to be annexed, provided there is some contiguity between the city and the other lands. Oklahoma, for instance, simply requires that a city surround an area on three sides. In other cases, resident approval is necessary, but there are enough incentives so that suburbanites accede to the request.

Even within the same state, cities can vary significantly in their ability to annex territory. Some cities

have been able to pursue a more aggressive annexation policy. Several cities have been prescient in grabbing surrounding rura, land before it gets too arbanized, offering the extension of city services to the new terntory For example, in the early part of the twentieth century, Los Angeles aggressively expanded by withholding water to recalc trant subarbs. Before this time, San Francisco had more than three armes the population of Los Angeles, but it now has only one fifth its population and one tenth its area. Similarly, in the latter part of the century, St. Louis and Kansas City have traded places, that is, Kansas City has replaced St. Louis as Missouri s largest city. Whereas Kansas City has expanded to an area of 311 square miles, St. Louis is circumscribed at only 62 square miles. In these cases, Los Angeles and Kansas City took advantage of annexation opportunities and were able to avoid being hemmed in by incorporated nume palities.

City-County Consolidation Another strategy that has been ut fixed by some cities is the creation of large united governments, in essence effecting a mass expansion in one swift move. This is often accomplished through the consolidation of the central city with the surrounding county and is termed city-county consolidation. Indianapolis is one of the best examples of this strategy. In 1969, the state of Indiana merged the old city with Marion County,

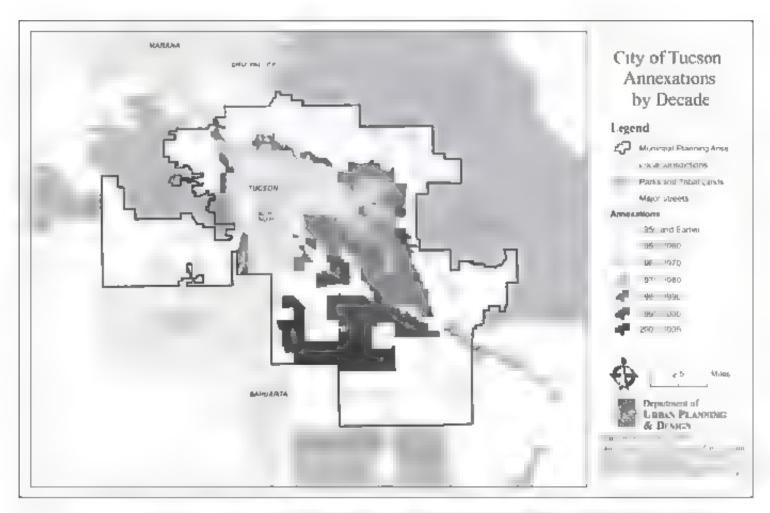


Figure 11.8 This map shows how Tuckon. Arrivonal has continued to expand during the insidecade. The twenty-first century Source Tuscon. Arrivona Department of Urban Planning and Design.

creating what was called "Unigov." The consolidation was not complete—several local governments and special districts were left intact, and the new city still was divided into 22 school districts—but the new city was able to capitalize on a much bigger tax base and enjoyed a major hoost in population

Another alternative to annexation is the creation of a joint economic development district (JEDD) A JEDD may be defined as a joint contract for economic development between a city and an unincorporated township. The city provides specified services in exchange for some of the township's revenue. This approach has been used in Akron, Ohio, as a way of collecting some revenues from incorporated suburbs without a direct accover. The advantage to the suburbs is that they are able to acquire city services. while retaining their autonomy. The advantage to the city is that it is able to share in some of the new tax revenue that is created by the JEDD. Promoters of JEDD agreements argue that these offer the benefits of annexation without the loss of local suburban control.

Metropolitua Government

Even within metropolitan areas in which agreeation and consolidation are impossible, several levels of coordination are seen among the various municipalities. To be effective, this coordination should be institutionalized in some way. Every metropoutan area contains metropolitan-wide organizations. transportation authorities, regional planning commissions, park boards, and so forth. In many cases the county government helps coordinate activities of its constituent cities and towns. True coordination, however, comes with the creation of a metropolitan. government that enjoys a broad range of authorities. superseding those of the manicipalities, especially some form of fiscal authority. Some of the hailmarks of metropolitan government include direct election of a regional council, tax-raising authority the ability to levy property taxes or sales taxes on metropolitan residents), tax base sharing (where wealthier municipalities within the metropolitan area subsidize poorer municipalities), and regional planning decisions (decisions on where future growth

should be sited). Unlike consolidation, the local governments are left intact, but they cede many of their powers to the metroportan scale of authority.

The creation of metropolitan governments has been complicated by the fact that suburban residents are often suspicious of what its impact will be on them and their autonomy. They want to avoid city taxes and city problems, and they wish to see themselves as still living in a small town, even if it happens to be right next to a big city! Urban residents may also be leery. This is often the case when urban minority groups have gained power within a city government and look on metropolitanization as a way of diluting their influence. Federal and state governments have gone back and forth in their policies, sometimes encouraging regional governments and other times promoting political decentralization. Certainly, the Canadian government promotes fiscal equalization among municipalities. Not surprisingly, metropolitan governments are found in all of Canada's largest cities, although with varying levels of efficacy. Toronto's metropolitan government has been notably successful, whereas Montreal's has been less so (Box 11 %)

Within the United States, true metropolitan governments are the exception rather than the rule. Reasons for this include the greater fiscal disparities between cities and suburbs, perceived differences in educational quality, the frequently significant differences in the racial and ethnic geography of crues and suburbs, and the fact that most metropolitan areas spill out beyond county lines. Despite these impediments, however, some metropolitan governments have emerged. For example, in 1957 Miamideveloped a strong metropolitan government with Dade County, but it has not been able to extend this into surrounding counties. Most urban geographers point to Portland. Oregon, and the metropolitangovernment of Manneapolis and St. Paul as the two most successful examples of multicounty metropolitan governments in the United States.

The Portland Metropolitan Services District was developed during the 1970s and has responsibility for regional planting, transportation policy, and environmental quality Like Miami-Dade, Portland's

BOX 11.3 METROPOLITANIZATION AND LANGUAGE IN MONTREAL

In the United States, metropolitan areas are marked by differences in race and class. In Montreal, there is also a linguistic aspect to these disparities. Once the largest city in Canada and still the major city in French-speaking. Quebec, Monarcal has long functioned as a bilingual city. English speakers, or Angiophones, continue to reside a ongside French speakers, or Francophones. Inim grant groups that flock to Montreal are also part of this mix Greater Montrea,'s languistic geography has long compitcated efforts to fashion a metropolitan solution to fragmentation (Figure B11.4).

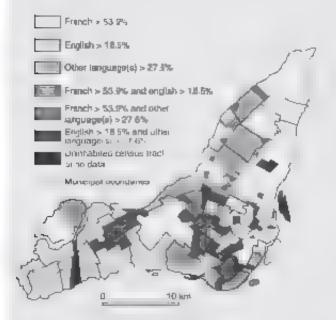


Figure B11.4 Linguistic distribution on Montreal Island in Quebec. This map shows the distribution of French, English, and other populations in relationship to their island-wide percentages. Clearly, the Anglophone population is concentrated on the western side of the island, whereas the Francophone population is found on the eastern side. Immigrant populations, who have other mother tongues, are more likely found in central Montreal itself Source: Germain and Rose, 2000 Reprinted with permission of John Wiley & Sons, Inc.

Embedded within the spatial segregation of the linguistic groups, there continues to be a pattern of institutional segregation In 1978, a Quebec government commission acclared that

Herein lies the explanation of this peculiar phenomenon of two communities living side by side without having to communicate with each other . This double network of institutions and in seen at the legislative judicial, educaatonal and hospital levels, it is evident in the informatrop media and entertainment fields: it applies in the area of culture and even at the provincial adminstrative lever (Sancton, 1978, p. 69)

The twentieth-century history of annexation and municipal government in Montreal suggests that the city attempted to fashion metropolitan fragmentation at order to retain linguistic divisions. Once Montreal became a French-majority city, annexations clearly targeted French-majority territory English majority townships to the west were scrupulously avoided, and to this day are home to solid Anglophone populations.

At well over half a million people, the English-speaking population in Montreal exceeds that of all but a few Canadian cities. It has the numerical substance to uphold key astrutions. The spatial concentration of Augtophones in parts of Montreal city itself and in some suburban municmahties has enabled them to exercise a degree of policical clout that would not have been possible had they been more evenly dispersed. It has also prevented many so idly English townships from being incorporated into the city of Montreal and risk losing their cultural autonomy Infact, towns like Westmount and Mount Royal were so tenacrously independent that, as the city of Montreal expanded through annexation, they were virtually surrounded. Poltey changes, especially those related to the dominance of the French hanguage, undercut much of this political power, but it st. It exists and helps to shape Montreal's metropolitanconfiguration.

metropolitan government is directly elected, giving it a legitimacy not often found eisewhere in the United States. It has been most noted for putting a relatively stringent land-use policy into effect, with a real growth boundary that concentrates development in certain areas. Portland's metro does not have a regional tax base sharing arrangement, however Although the levels of fiscal disparities are lower in Portland than in most other metropolitan regions, pronounced differences str., exist between wealthy suburbs with a high and growing tax base and poor suburbs with a lower and sometimes declining tax base.

The Twin Cities Metropolitan Council was created in 1967 and includes St. Paul, Manneapolis, seven counties, and dozens of suburban municipalmes. The original inient was to develop long range plans for the entire region by focusing growth in certain places. Over the years, the Metropolitan Council also acquired jurisdiction over regional sewer, transit, and land-use planning. The council (self is not popularly elected, but appointed. However the council has fiscal authority. It can raise its own revenues and issue bonds. One item that also aids in the metropoutan mission is the fact that the Twin Cities region has a partial tax base sharing program that allows each community to gain from development in the region by sharing the fiscal wealth, although strong disparities still remain. Compared to other metropolitan regions. the Twin Cities Metropolitan Council demonstrates remarkable success in promoting a true regionalist perspective. It has not altered the basic dynamics of fiscal disparties and metropolitan polarization, however and it finds itself bypassed by the overall expansion of the metro area.

WRAPPING UP

This chapter has shown how the economic and social development of the nineteenth and twentieth centuries he/ped spur the development of civic institutions. As cities became the places where most Americans lived and as the cities themselves became larger and more populous, urban government was compelled to expand. Services that we take for granted today, such as police, firefighters, streets, and sewers, became organized and supervised by arban governments. The increase of services required an expansion of revenue, something that cities have had trouble acquiring at times. Expansion has also led to more complex local governments, often with several power centers and shifting coalitious. In the latter part of the twentieth century, the expansion of the city beyond its municipal boundaries and the geographical dispanties found between poor crites and rich suburbs led to some acute fiscal problems. in the old urban core and have encouraged efforts to solve what is at its heart a problem of trying to find the right political solution.



PLANNING THE BETTER CITY

Make no little plans. They have no magic to stir men's blood and probably themselves will not be realized. Make big plans, aum high in hope and work, remembering that a noble, logical diagram once recorded will never die, but long after we are

gone will be a living thing, asserting itself with ever-growing insistence

> -Daniel Burnham, address of 1907 from Hall, 1996, p. 174

Today, we may envision urban planning as something that occurs in a government office, undertaken by professional civil servants who work with elected politicians, community activists, and property developers. This is the image of urban planning as it evolved during the course of the twentieth century. Although accurate in part, this is an incomplete view. Planning is something that has been done from the very earliest human settlement, where villages were constructed according to constraints, customs, and, likely, the decisions of the society. Later, cities were clearly designed according to certain precepts.

Urban planning has a rich history, dating back to the ancient Greeks. It was Hippodamus who introduced the idea that settlements could be designed in a rational and orderly way. Of course, such sentiments did not always lead to ordered communities. Some communities were exceptionally well ordered, often along cosmological lines, with the city being set up as a microcosm of heaven on earth, and with particular attention paid to the orientation of the structures within the city and to the city itself. Many other communities, however, grew by accretion, as bits and pieces of the physical structure of the aettlement—streets, houses, places of worship, businesses, and industries—were added bit by bit. The resurgence of the capitalist city, discussed in Chapter 2, often included some planned elements. The wall, port facilities, canals, and marketplaces were maintained in the public interest. However, the sections of the city in which most people lived and worked were generally quite chaotic. Planning emerged as a means of instilling some order into the urban environment. Professional planning began to take form in the late nineteenth century, as urban areas grew larger and more complex. By the early twentieth century, planning moved away from the ideals of a few charismane visionaries toward the practice of a cadre of dedicated and certified professionals.

Today, planning is carried out by many people who would not necessarily be considered professional planners. Planning takes place whether or not "planners" are involved. Professional planning has evolved as a means to add rational thought, methods, and experience to the process. Sometimes planners leave a bigger mess than they found, but often they perform an important function of minimizing costs and increasing benefits.

In this chapter we discuss the rationales, bases, and activities of modern urban planning. The tools of modern planning—the comprehensive plan, zoning, fiscal incentives, and others—developed throughout the course of the twentieth century. Today, some of

these tools are under attack as contributing to some of problems of modern urban society. At the same time, new planning solutions have been devised and are beginning to be implemented in various communities across the country.

MAKING THE CASE FOR PLANNING

Although they may differ over the extent and details of how cities should be guided, people of just about every political persuasion would agree that some form of urban planning is desirable. The alternative—a city based on the unfettered exercise of the free market-would just be too chaotic. For this reason, every city, town, and village in North America is planued to some degree. Likewise, planning has long been a key element of the development. of cities. As we discussed in Chapter 11, demands for particular services-police, fire, education, water, streets-made it necessary to expand the power and authority of municipal governments. During the mneteenth century, the demand for these services grew along with the urban populations. Unprecedented rates of urban growth in North America and Europe, as a consequence of the Industria. Revolution, created an awareness of problems and a desire to help alleviate some of these problems With industrialization, cities expanded at a terrific pace, defying any attempt to instill order, Early industrial cities mixed high population densities, muddy and congested streets, jerry-bailt housing for the burgeoning worker population, and the polluting engines of the factory and the train. City leaders and gadflies alike began to see that planning could be used as a way to create a more pleasing city, to help uplift the atrocious conditions of the urban poor, and to help protect the property values of the whan rich From this diverse set of motivations emerged some of the basic rationales of planning, which have leadirectly to today's planning practices.

Aesthetics:

Cities are made up of areas owned by the public such as streets, parks, government buildings, and schools, and areas owned by private individuals. Although most individual landowners look after their own property, they lack the power to fit individual pieces of property together into a more pieasing whole. As any observer of modern urban landscapes can tell you, this lack of centralized pianning can result in a lot of agliness. For example, in the inner city, property is left unkempt and is sometimes abandoned. Once-viable neighborhoods deteriorate into wastellands of boarded-up buildings, weed-strewn lots, and generalized decay. In the more prosperous parts of the city, the human landscape is overwhelmed by the jumble of parking lots, oversized signs, treeless housing developments, and the like—all connected by strip highways.

The unsightly result has long led some people to search for a more coordinated city. Such an approach was far easier, of coarse, when cities could be controlled by one person or by a defined elite. For example, during the Barnque era, prior to industrialization, many cities were designed according to the **Grand Manner** Planning was used to create a cityscape that was monumental—as a means of glorifying the ruler—as well as beautiful. Aesthetic objectives were key in this approach. The ideals of the Grand Manner included.

- A coordinated design for streets and avenues that would help to connect various monuments, statues, and other focal points
- Attention to the topography of the site, as the city was aligned so as to create vistas that could overlook the city or certain urban landmarks
- Attention to streetscapes, particularly for the main streets in the city, broad tree and boutevards were the rule

All of these major design features were then superimposed on the streets and buildings of the working city

Many European eities were designed according to these principles, often under the aegis of a monarch. In France, the city of Versailles was clearly designed at the behest of Louis XIV in the midule sevenieenth century. The best American example of the Grand Manner is Washington, D.C. Here, Pierre-Chanles L'Enfant, a planner steeped in Baroque design, was commissioned to create a city from scraich. He designed a layout that departed significantly from either the

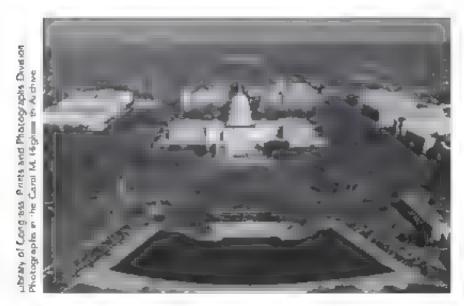


Figure 12.1 This aerial view of Washington, D.C., demonstrates the broad lines, vistas, and overall organization that typity the Grand Manner of planning

hodgepodge of streets of the simple grid (Figure 12.1). L'Enfant's original plan was not truly fulfilled during the course of the mineteenth century. However, at the beginning of the twentieth century it was completed under the McMillan Plan, which led to the establishment of the Washington Mall, the set of adjoining parks and pools, and the monuments and public buildings within and surrounding it

The McMillan Plan was part of a larger movement that awept urban planning around the turn of the twentieth century. The City Beautiful movement emphasized the creation of an aesthetically pleasing public city. During the Chicago Exposition of 1893, a prototype city was built with broad, tree-lined avenues, white buildings of uniform height, uniform neoclassical facades, and numerous examples of civic art, monuments, fountains, and reflecting pools

This demonstration was the brainchild of architect Daniel Burnham, who lived by the credo to "make no small plans." In 1905 Burnham assembled a massive proposal known as the Chicago Plan. This plan created a series of radial and ring roads, stretching out from the center of the city for 60 miles. It also demonstrated how to implement various elements of the City Beautifu, movement. Among these elements were an attention to desthetics, an appreciation for the

lacts of city expansion, the notion of creating an integrated design, the construction of large, monumental, and coordinated buildings, and the use of naturaamenities

The City Beautiful Movement never achieved the influence that its proponents desired, It was considered too elitist, too expensive, and simply not practical enough. The countermovement to the City Beautiful is sometimes termed the City Practical. However, this movement should be seen less in opposition to the City Beautiful and more in terms of evolution. The City Practical movement heralded the rise of professional planning, greater planning specialization, and larger municipal bureaucracies. It incorporated many of the (deals of creating an aesthetically pleasing city, including (1) the design of broad and coordinated urban spaces, (2) the implementation of large-scale plans in many downtown areas, (3) renewed attention to waterfronts and other urban amenities, and (4) an emphasis on historical preservation, which seeks to retain many of the older structures that give individual cities their unique character.

Efficiency

Planning also was motivated by efforts to create a city that could operate more efficiently. This emphasis on efficiency stems from the well-known notion that development projects that make economic sense from the point of view of private developers may impose large public costs borne by everybody

As cities grew in the nineteenth and early twentieth centuries, much of this concern with inefficiency was tied into problems of congestion. Cities were growing so fast that more and more people were being packed into existing urban space. Densities skyrocketed, with many city blocks containing more than 1,000 people. Encroachment of properties anto street right of ways, a lack of adequate ventilation, and buildings built up so far as to intrude on sun ight—all of these generated momentum to find some way of controlling congestion.

This was true in both European and American cities. In Paris, one solution was in trated by Baron von Haussmann, who in the 1840s was given broad authority to "regularize" Parts by demolishing congested properties in the inner city and creating a series of long, regular streets lined with imposing apartment buildings, with stores and offices located on the first floor. This process of cleaning and redesigning existing cities—with attle regard given to those who inhabited the sonn-to-be demolished buildings—was

termed **Haussmannization** and became a code word for massive urban regewa.

In the United States, concerns about congestion reached a fever puch in the first decade of the twentieth century. They even led to a well-attended Exhibition of Population Congestion that detailed the horrors of too many people in too small a space. The main solutions to congestion consisted of demolishing existing structures and moving residents of the inner city further out. This was difficult to put into practice at this time, however, because many people did not have the transportation and financial means to move out. Therefore, these ideas were not fully acted on until the 1950s and 1960s when the urban renewal movement, backed by billions of federal dollars, cleared and redeveloped about 1,000 square miles of urban land and in the process demolished 600,000 housing units that housed about 2 million people (Figure 12.2)

In the latter part of the twentieth century, at least in affluent countries, wormer over congestion eased as many residents did indeed disperse. Iromeally, his has generated another set of concerns, framed by the problems of urban sprawl (see Chapter 8). Sprawl is often criticized for creating an enurmous array of



Figure 12.2 Paris in 870 shows the dramatic effects of Haussinannization.

public costs associated with having to provide services to residential and commercial developments in far flung districts. Costs associated with maintaining roadways for automobiles, extending sewer and water lines to reach those new developments (or suffer the environmental risks of septic lanks), ensuring adequate police and fire protection, and building enough schools are all priorities of the pubhe sector, Table 12,1 enumerates the costs of these community services. For different towns, this indientes that each dollar in revenue generated by residential development costs a community between \$1.06 and a \$1.67 in services. Commercial and industrial development yield more revenue than expenses, and leaving land open is also economical. There is some dispute regarding these figures, as developers often argue that new homeowners generate more income for the community than these figures acknowledge. How communities choose to deal with this issue has become a major concern of many planners and government officials. We discuss some of these growth management strategies in a later section

Social Equity Planning

Private urban development helps to create vibrant, bustling othes that can accommodate the needs and desires of many segments of the population. Yet, the poorest members of the society are often left out. Land-use decisions are rarely made with their interests in mind. The poor are either neglected—given no housing choices, few shopping opportunities, and no green space—or they are exploited by predatory lenders, high-interest "money shops," and slumlords.

Historically, urban development left the poor on the fringes away from the arty's services and the city's protection. The phenomenon of squatter settlements (discussed in Chapter 14) shows how this occurs in modern cities in the developing world. With industrialization, the location of the poor within the city shifted. Many poor people found their way to the inner city, as the more affluent population moved away from the noise and pollution. In London, Manchester, New York, Chicago, and other industrial cities, people lived in some truly horrible housing that was badly constructed, poorly ventilated, and lacked adequate sewage facilities. People were stuffed into tenements, and it was not uncommon to find more than four people sharing a room.

Table 12.1 Cost of Community Services

		Commercial	
	Residential	Industrial	Open Land
Connecticut			
Hebrun	00:1-06	1.00:0.47	1.00:0 43
Messou husetts			
Agawam	.00:1.05	1.00:0.44	1 10:0 3
Deerfield	±.00:1-16	1.00:0.38	1.10:0.29
G/B	00:1.15	$1.00 \cdot 0.43$	1 10:0 38
New York			
Beekman	1.00:1-12	1.00:0.18	1 10:0 48
North East	00:1.36	1.00:0.26	1.000.21
Ohto			
Mad son Village	.00:1.67	1.00:0.20	1.00:0.38
Madson Township	.00:1.40	1.00:0,25	1.00:0.30
Med an ratio	00:1.19	1.00(0.29)	1 (0:0 3)

Source: American Familiard Trust 2006, Farth Information Center Fact Sheet

Concerns became more pronounced in the mid-matter that time, Dr John Griscom, wrote about the burgeoning tenements of New York

You must descend to them, you must feel the blast of foul air as it meets your face or opening the door, you must grope in the dark, or hesitate until your eye becomes accustomed to the gloomy place, to enable you to find your way through the entry, over a broken floor, the boards of which are protected from your tread by a half inch of hard dirt, you must inhale the sufficienting vapor of the sitting and sleeping rooms, and in the dark, damp recess, endeavor to find the inmates by the sound of their voices, or chance to see their figures moving between you and the flickering blaze of a shaving burning on the hearth. (Quoted in Feglesong, 1986, p. 64

Such conditions led to high rates of mortality, caused by the combined deprivations suffered by the residents of such hovels. Advocates for better health led the charge to improve conditions, but so did advocates of social health. The main worry among the "respectable" members of society was that these conditions would threaten the social peace, breeding moral depravity, discontent, and socialism. Such events as the draft nots in 1863, in which opposition to Civil War conscription sparked widespread violence in New York City that resulted in 1,000 deaths, and the anarchist movement made apparent the need to do something.

Most of the resulting efforts were in the area of housing reform, especially the late nineteenth and early twentieth centuries. New York City, as the largest and most congested American city, played a prominent role in the reform movement, but other cities also attempted to regulate housing. Reforms such as building codes, which allowed only a certain percentage of the lot to be occupied by a tenement building and established minimum requirements for bathrooms, fire escapes, and windows, were spurred by the desire to improve bousing conditions for the poor (Figure 12.3). Collectively, these reforms

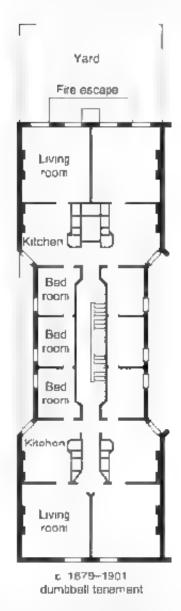


Figure 12.3 In the late nineteenth century, population pressures led to new urban designs. The dumbbell tenemen, design was the winner of a contest, but quickly became notonous as an example of bad, unhealthy housing. Source Wright, Gwendolyn, 198.

are referred to as social equity punning. In addition, European cities ventured into building public housing, but the United States largely eschewed this approach until the 1930s.

Today, the need for social equity planning is still apparent. The decisions of the private marketplace are generally not as good for the poor as they are for the wealther classes. Previous chapters have shown how the city has decentralized, leading stores and jobs to move out to the suburbs and stranding the poor in the inner city. Metropolitan fragmentation, discussed in Chapter 11, often burdens poorer residents of cities with higher taxes but inferior schools and other public services. Gentrification, which leads to urban revitalization, often displaces the poor, who are priced out of their own neighborhoods.

Planners can do something to improve the conditions of the city's less fortunate residents. Corrections are complicated and usually expensive. Public housing a still an option for many prior people, although it has been shackled by numerous problems, as we saw in Chapter 8 Enterprise zones attract businesses to the inner city by offering tax abatements. And housing vouchers, as described in Chapter 9, have also worked to improve access to housing throughout the city. The risks of not doing anything, according to Cleveland's longtime planner Norman Krumholz. , 1996), are that clides will become eather a sandbox," where the "kids" (urban residents) are put out of the why while the important business of society is conqueted in other arenas, or an "Indian reservation" or island of dependency (p. 360). Only with a stronger, more activist planning role, Krumholz argues, can cities begin to tackle the major problems of poverty and ramal segregation

Maintaining Property Values

Early cities were functionally integrated. Residential, commercial, and industrial uses were located in proximity to one another. They were also more socially integrated in that rich and poor shared many of the same neighborhoods. The explosive growth of cities and the increased concentration ied to a desire for the government to step in and regulate building and property uses as a means of minimizing negative externalities and maintaining property values.

The assue of property values as closely used to a property owner's dilemma and the nature of landed property as a commodity. If a property owner renovates her property but others do not renovate theirs, she will not realize much in the way of increased property values. Conversely, if the neighbors renovate their property but she does not renovate hers, her property value will still increase. Thus, there are no individual incentives for people to maintain or improve their property. Moreover, if everybody follows this principle, then the neighborhood and all of the property values will suffer. Clearly, then, your neighbors help determine your property value. This becomes especially apparent when your neighbor can put a factory or a aleazy strip club right next to an expensive apartment building. The value of the apartment building invariably goes down

Zoning came about as a way to control these negative externalities by regulating exactly what could be piaced where. Zoning is simply the establishment of districts that permit only specified types of land use. Comprehensive zoning was first introduced in German cities such as Frankfurt in the late nuneteenth century. Different sections of the city were zoned for different uses, and restrictions on building height and building bulk were introduced (Figure 12.4). Amertean observers admired this system and sought to introduce it to the United States.

By the twentieth century zoning had become the premier method of urban planning. Enabled by federal and state governments and deemed constitutional by the courts, zoning became a fundamental policy of most municipal governments. Zoning was not an aesthetic movement—it did not constitute a grand vision of the city. Rather, it was adopted as a strategy to minimize the problems incurred by private development. Zoning, discussed in more detail later in this chapter became the best, most politically attractive way to control nuisances and to maintain property values, and as such it found favor with business leaders, property owners, and civil servants.

Environmental Protection

Although we may think of the environmental movement as dating to the 1960s or early 1970s, concerns about creating a more healthful environment were apparent as early as the nineteenth century. The solutions, such as drawing nearby marshes to reduce

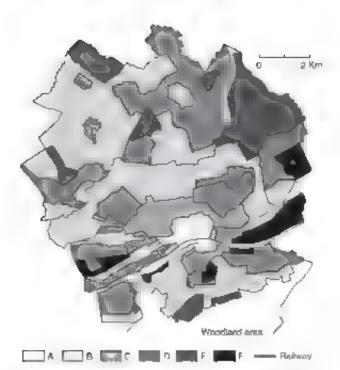


Figure 12.4 This zoning map of Frankfurt, Germany, was produced in .910. The inner city (a) is zoned industrial and residential. The (c) zones are high-density residential, the (b) zones are lower density residential, and the .e) zones are designated for large detached houses, industrial uses are permitted in both (d) and f) zones. Source: Sutcarfe. Anthony, 198

disease, may run counter to current views, but they indicated a desire to improve the urban environment. Some of the issues discussed earlier, like congestion, also included an environmental dimension. Public health became a major concern because so many cities expanded well beyond their capacity to provide water or remove wastes.

One movement that was clearly fied into the environment was the development of parks. Many European cities had royal preserves that were gradually opened up to the public. There was nothing comparable in U.S. cities. There was a great deal of cheap land on the peophery, but this land was often tocked up by land speculators waiting to cash in on urban growth. City leaders began to recognize that purks were important and that urban residents needed access to green space. Parks were described as the "lungs" of a city, and by the late nineteenth century

many cities had embarked on an extensive program of park acquisition and park design.

Frederick Law Olmstead was the best known park designer in the United States. Olmstead helped to develop Central Park in 1850s New York—then right on the edge of the city's expansion. He also was responsible for other parks in Boston, Brooklyn, Chicago, Montreal, and Detroit. During the late nineteenth century, he and his students created parks in most U.S. cities. Olmstead believed that parks helped to release workers from the drudgery of city life and were an antidote to the evil influences of the slam.

Some urban olites dennunced parks as a "free" benefit o the poor. In fact, the parks that were developed were often too far away for workers who had to labor until nightfall and could not afford the time. to take a long walk or a streetent to the negrest park, instead, parks were patromized by the wealthy Many of them became fashionable for equestrans who could ride horses in a natura, setting (this at a time when most urban travel was conducted on horseback or with a horse and carriage). Moreover, nark development greatly increased values for adjoining properties, a pattern that holds true today. Luxury apartments would be bailt right next to parks in order to capitalize on this new amenity. Later, Olmstead and his students developed parkways and park like suburbs that sought to create residential communities in the park (Figure 12.5). These communities were a break from the traditional grid that dominated most cities, and they were popular among the affluent. In many ways, they presaged some of the modern master. plan and golf course communities.

The development of parks also had an institutional effect: It led to the creation of parks commissions. Many of these, like the Cleveland Metropoitan Parks District established in 1917, were metropolitan in scope, covering both the central city and early suburbs. As a result, they foreshadowed some of the other metropolitan-wide agencies that sought to put planning into a larger perspective

Today, environmental usues are associated with much more than parks. There are concerns about



Figure 12.5 Olmstead also designed communities, with houses nestied in a park like landscape. This is the planfor R verside, a suburb of Chicago, designed in 869 Source: Kostof, Spiro, 199.

many different types of pollution: groundwater, surface water, air pollution, and so forth. Such problems tend to stretch far beyond the limits of any single municipality. For this reason, the authority to deal with them must go beyond the purview of any given city. Nevertheless, they are still dealt with by planning agencies. The requirements for environmental impact assessments permeate the day-to-day workings of many city county, and township planners and are the focus of federal and state agencies.

DEVELOPMENT OF MODERN PLANNING

As the rationales for planning came into sharper focus in the late naneteenth and early twentieth centuries. planning remained the province of a few concerned individuals. These individuals were instrumental increating visions of what the city should be-visions that, although diluted, were still copied in actual designs of cities and neighborhoods. Over the course of the twentieth century, however, planning authority was gradually transferred to a professional cadre that worked within apprepriate legal and institutional

frameworks. The evolution of these frameworks has helped planning achieve more authority in regard to many everyday facets of land development, but it has perhaps also led to a lack of an overarching vision. Modern planning often focuses on such narrowly defined issues as ensuring adequate parking and requiring urban areas to adhere to strict separation of functions. This in turn has spawned a counter-reaction that re-examines the basic concepts of cities and neighborhoods and considers how they can be improved.

Visionaries and the Urban Ideal.

In the early twentieth century advocates offered up a number of visions of what the modern city should be like. We have already discussed the plans of Daniel Burnham and the City Beautiful movement. The utopian visions were even larger in scope and required the building of cities from the ground up. Like Bumham, the visionaries were private individuals with little public institutional authority. Most were also architects. Nevertheless, they had a great deal of moral authority and, as a result, their visions influenced the development of cities.

Ebenezer Howard and the Garden City Movement The first successful effort at realizing a particular urban vision in the twentieth century began as the Garden City movement, associated with a mild-mannered British stenographer named Ebenezer Howard. Howard's ideal city was intended to be established away from the main population centers, especially London-the world s biggest city at that time. Garden Cities were also meant to be self-contained, with a balance of jobs, housing, and retail, Most significantly, the ideals of the Garden City were predicated on the public control of land. People would lease their property rather than buy it outright. The land itself could be held by some sort of corporation, trust, or the government. This would allow for land-use decisions to be made in the public interess

Some of the specific tenets of the Garden City movement were as follows (Figure 12.6).

 There was to be a max mum population of 58,000. Later Howard conceded the necessity of creating a larger

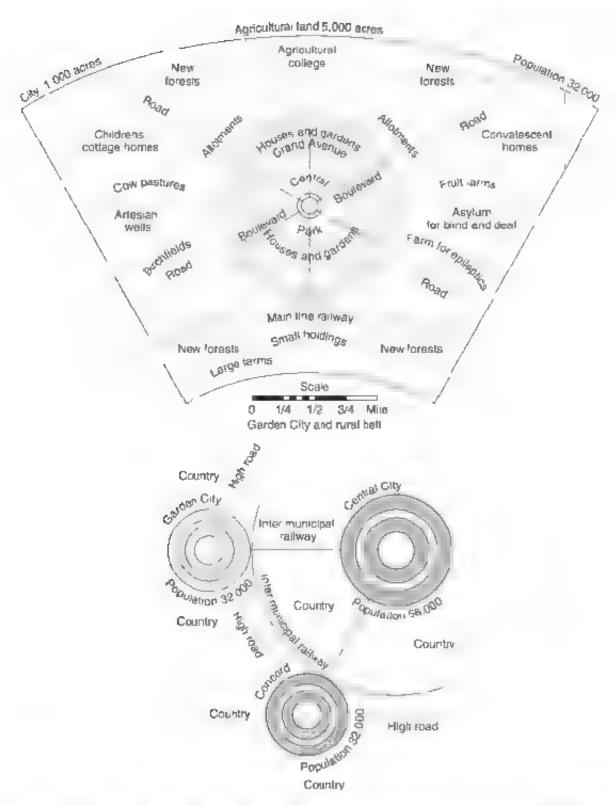


Figure 12.6 Ebenezer Howard's plan for Garden City proposed as a self-contained community with a balance of jobs, housing, and retail. Source: Levy, John M., 2000

urban system, composed of the larger central city, surtounded by satellite cities, each with a population of about 32,000. These satellites were meant to be p siphon off any excess population from the center.

- The general rayout of the c-ty was in a series of concentral zones, with preaty of parks and gardens. The entire city would be surrounded by a greenbelt that would provide parkland but would also constrain the city physically.
- The city was expected to be self-sufficient, and all of the functions would be within easy access. Factories would be found toward the edge of the city. Central government and commercial functions would be located in the center. The city would be further divided into internal superblocks, each with parks and commercial functions.

The Garden City idea, was successful, particularly the notions of easy access, plenty of open space (a ranty in industrial cities), and a large-scale master plan that divided the city into functional districts. It spawned a number of movements both in Britain and abroad. A few prototypes were built before World War I that adhered more closely to the Garden City design. After World War II, the British developed a host of New Towns loosely based on this model These towns were expected to be self-contained, with a balance of jobs and bousing and plenty of parkland. By 1995 some 34 of these New Towns had been built, bousing some 4 million Britons. Variations on this theme were attempted in other countries, particularly France.

Le Corbusier's City of Towers Le Corbusier was a French arciutect who came up with urban plans that, although never realized as a whole, had an enormous influence on urban design. To Le Corbusier the ideal city combined extreme density with spaciousness. This could only be accomplished through high-rise buildings that would be scattered across an open landscape. Le Corbusier created two major urban models; the Contemporary City and the Radi ant City. Although different in some of the details, these models conformed to his overall vision of how a city should be developed. Like Howard's Garden City, Le Corbusier's urban utopia was based on all land being held in common. It was also based on

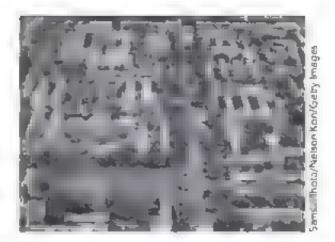


Figure 12.7 Le Corbusier was an architect who perceived the city as a series of massive towers, surrounded by open space. This 1920s plan shows how he intended to redesign a neighborhood in Paris

extreme functional separation, with different aspects of the city buffered by lots of green open space (Figure 12.7)

The Contemporary City (Lustrates the major principles of Le Corbusier's vision. Le Corbusier's ideal city was enormous in population and area. He forecast an ideal population of some 3 million residents. The city itself was laid out in a vast park, creating thousands of acres of commonly owned open space for the inhabitants to enjoy and allowing for ample sun light and vegetation.

Individuals were expected to live and work in multistory buildings. Office buildings were to be built as high as 60 stories—as tall as most structures in the 1920s, when this model was proposed. These office buildings would be found at the center of the city Eight-story apartment buildings, arranged in a zigzag pattern, would accommodate most of the population at a density of 120 people per acre. In this vision, there was to be some provision for single-family housing, but it would be limited in scope. Moreover, the buildings themselves were to be placed on columns, leaving the ground level open.

Because the different functions of the city were so spread apart, Le Corbusier intentionally designed his city not to be a warking city. Instead, he anticipated that each building cluster would be connected by major roadways or rail lines. In proposing this arrangement, he anticipated the tendency for cities to decentralize and for more people to rely on personal transportation. At the same time, parking lots do not seem to have figured prominently in his scheme

Although neither of Le Corbusier's utopian cities was ever built, he was able to influence the development of a few etties in total and math modern urban design. For example, Brasilia—the planned capital of Brazil—was designed to be both spacious and monumental, with plenty of open space. Chandigath, not a—the new capital of the Punjab—was designed by Le Corbusier himself. Both cities are far more spacious than is the norm for their countries, although poverty has led to a large influx of poor people who tend to set up shacks beyond the main streets (see Chapter 14,

Le Corbuster also had a significant influence on the establishment of urban renewal districts and public housing. In both instances, the ideal of tall buildings stirrounded by open land became something of a signature. Unfortunately, in the case of public housing, it has led to many more negative perceptions than positive ones. Le Corbuster's vision of skystrapers turrounded by verdant parkland has transmuted into blighted concrete blocks engirdled by sinister waste and (see Chapter 9)

Frank Lloyd Wright's Broadacre City American architect Frank Lloyd Wright is best known for innovative buildings like Tallesin, Falling Water, and the Guggenheim Museum. But Wright also advanced a utopian vision that is in many respects closer to what the modern suburbanized city has become Wright's vision was quintessentially suburban. He abhorred large concentrated cities, in fact, he described New York as a "fibrous tumor" He was most interested in liberating people from mass agglomerations and allowing them to live as free individuals. He also believed that the best course of action was to merge town with country, an ideal espoused more than a century earlier by Thomas Jefferson

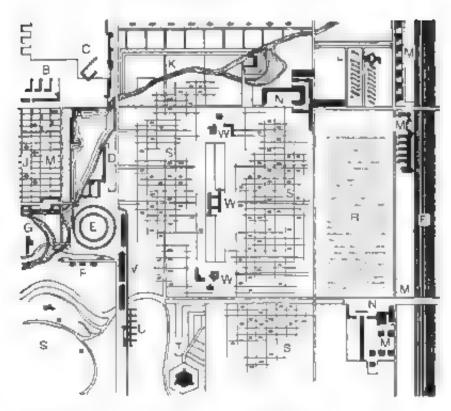
Wright referred to his utopia as Broadacre City because it was to be made up of large, privately owned plots. In this regard especially, Wright's plan run counter to the public ownership assumed in Howard's and Le Corbasier's visions. His plan was for a dispersed settlement of people, baked by spacious, well-landscaped highways traversed in private automobiles. In his city, all residents would own a large lot of land (one or more acres) on which they would grow food and recreate. They would commute by car to their jobs in another section of the city (Figure 12.8).

Of course, with all of this private land ownership, the city would need to be large in area. Nevertheless, it was Wright's contention that each individual should be able to find what she or he needed within 10 to 20 miles of home through the planned arrangement of shopping and factory districts. In many respects, Wright's plan its very close to the modern suburb. You can see this at work in the exclusive districts, the development of edge cities, the automobile dependency, and the dispersal of residences on big lots. Where Wright's vision differed from modern suburban reality was in the expectation that people would work as part-time farmers. However, with the explosion of interest in gardening even this may not be too far off

Legal Basis for Planning

The visions of what a city could be were important milestones. They furnished the ideas that helped guide urban design and helped the nascent field of urban planning to see the city as a whole. But the weakness in these visions was precisely that they assumed everything could be controlled by a central authority. Le Corbusier, for one, was contemptuous of politics and the political process. In democratic countries, such high-handedness was not possible, and ideals of urban design were forced to confront the realities of law.

In all cophalist countries, planning must contend with the rights of property owners. Land is something that people work on, extract from, play on, build on, and live on. The different "values" of land—use value, exchange value, and the commodification of land and housing—have been discussed in Chapter 8. For our discussion here, it bears noting that the value



- A County seat arch milistration
- B Airport
- C Sports
- D Professional offices
- E Stadium.
- G Santarium
- H Small industry
- J. Smell larms
- K Park L. Motor inc.
- M Industry
- F Hotel P Railroad
 - R Orchards
 - 6 Homes and apartments
 - T Temple and cometery
- N Merchandising U Research
 - V Zuv

 - W Schools

Figure 12.8 Frank Libyd Wright created this part for Broadach, City He envisioned a dispersed set lement of penple langed by spacinus, well, andscaped highways traversed in private automobiles Source Gallion Arthur and Simon Esiner, 1983.

of land as a commodity depends on its ownership If land is publicly owned, it has no exchange value. Land may be leased, with certain rights given to individuals residing on it or otherwise using it. It may even be possible for individuals to own the structures built on the land. The land itself, however, cannot be bought and sold. In contrast, if land is privately owned, it is property that can be bought and sold just like anything else. This gives property owners many more rights and the presumptive ability to do what they wish with the land they own

In the United States, the right to private property is written into the Fifth Amendment of the Constitution, which states "nor shall private property be taken for public use, without just compensation." This is called the takings clause of the Constitution, and is affirmed by the Fourteenth Amendment, which states that no person shall be deprived of life, libcity, or property without due process. In contrast, other countries, although recognizing the sanctity of private property, do not have the same levels of protection enshriped in their constitutional framework (Box 12.1).

Land is different from other forms of property, for two reasons. First, land may be required for common projects such as highways, ports, airports, and new facilities. Second, land is directly affected by what is around it. As we have seen, what you do with

your land can have a major effect on your neighbors' property. How the government has been able to get around these premises informs the legal history of planning

In some cases the government purchases land outright through emment domain, discussed earlier in Chapter 8. The Constitution clearly states that you cannot be summarily deprived of real property just because it is needed for something else. At the same time, the law recognizes that a necessary project cannot be stalled or stopped because one property owner refuses to sell her or his land. Enamen, domain allows the government to take land from private owners as long as it often "just compensation," as written in the Fifth Amendment. When the government acquires and through emment domain, it pays the landowner for the land, but it also determines the price. The constitutional basis for eminent domain was established m the 950s. Most recently, in 2005, the Supreme Court ruled (m Kelo v. New London) that a municipal government could condemn privately owned land by eminent domain in order to benefit a private business. project as part of a comprehensive development plan.

In other cases the government shipply seeks to reg plate the use of land. These situations are generally more complex than outright purchases. Most modern planning involves some restriction on how a parcel may be used. For instance, let's say that a landowner wishes to build a 10-story apartment building, but height limitations require her to settle for a 5-story building. The "loss" of these five stones could transate into the loss of that much potential rent. The property owner might claim that the height restrictions constitute a "talting" unless she is compensated for the potential loss, Excluding certain functions operates in a similar manner. If a property owner wishes to build a factory in land that is zoned residential, then he might claim that the government is "taking" a portion of his property rights and his potential income

The early twentieth century witnessed a number of court cases that dealt with the issue of takings. These involved a brewery closing under a Konsas prohibition law, height limits in Boston, and zoning in Euclid. Ohio, which prevented a commercial

building from being placed in a residential zone. In these cases, the plaintiffs—those who sought to overturn existing property restrictions—lost and the government was granted the authority to restrict what could be built where. However, there was also an understanding in all of these rulings that planning restrictions could not be arbitrary. Rother, they must involve a means of safeguarding public health, public safety, or public welfare. Planning restrictions were also required to fit within a larger community plan, so that a government could not prohibit the owner of an individual parcel from building a particular structure unless it first had implemented a comprehensive plan that covered all parcels within the community.

As many of the tools of planning became a part of settled law, communities rushed to develop comprehensive plans and zoning regulations. But there has always been a tug of war between the forces of property regulation and the forces of private property protection. Recently, property rights advocates—those who feel that many restrictions are unconstitutional and should be curtailed-have been aggressive in challenging land use restrictions. They have been successful in some court rulings. In one case, a property owner was told that he would have to provide public access to the beach in return for being allowed to enlarge his house. The Supreme Court decided that the two actions were unrelated, and that the property owner could not be compelled to provide access. A case brought by a South Carolina property owner. claimed that he was financially harmed by a decision. that he could not build on his beachfron property. The Supreme Court ruled that, because these restrictions were imposed after the property was bought and because they rendered the property financially worthless, the owner would have to be compensated. In 2001, the Supreme Court went even further, arguing that a Rhade Is ander who bought property in a welland still deserved compensation for the lost value of development, even though restrictions were in place before the property was acquired

By the late twentieth century, takings issues involved more than just zoning Environmental laws like the Endangered Species Act have given the government broad powers to limit development in

BOX 12.1 PLANNING RIGHTS IN OTHER COUNTRIES

The L.S. Constitution is very protective of private property, and many people point to this as a reason for long-term U.S. prosperity. At the same time, however, many constitutional and legal provisions have created difficulties for planners. In fact, planning is often easier in other societies. Underlying property rights are not quite as strong, and individual planning boards have greater degrees of discretion. Even when we compare the United States to those societies that are arguably the closest to us in culture—the United Kingdom and Canada—we can see differences (Figures B12.1 and B12.2).

With regard to the view of property rights and especially of takings, the United Kingdom after World War II effectively nationalized development rights. In other words, there exists no basis for British landowners to argue that their development rights have been taken and they therefore deserve compensation. Moreover, if landowners benefit from a permission to develop, they then must pay a charge. The issue of takings its simply not in the picture Canada a constitution does not explicitly protect property rights as does the U.S. Constitution, so the issue of takings does not apply there as well.

The other difference has to do with the discretion of planning boards. In the United States, planning boards are hamatrung by the need to treat all parties equally, developers and residents alike. This has been the basis for many of the successful court challenges to planning decisions.

areas that encroach on natural habitats. This has infuriated property rights advocates, and there has been a movement in Congress to enact takings legislation that would require the government to compensate landowners when environmental laws reduce the value of their property by a certain percentage. There have also been motions to curtail the reach of the Endangered Species. Act or to gut it altogether.

Growth of Planning as a Profession in the United States

In Chapter 11 we discussed how local authority was widely dispersed to municipalities, counties,

Zoning has been permitted only when it is applied unformly. So, a developer who wants to build something that is considered undestrable can still proceed, as long as he or she is not violating zoning ordinances. In contrast, planning boards in both Canada and the United Kingdom have a much greater degree of control. In Britain, all new development is at a planning board's discretion. A general plan is prepared, but local authorities do not have to allow development even if it is in accord with the plan. They may consider other things, and if they decide to probible a development, there is stile legal recourse. Canada has a more



Figure B12.1 Acria, view of suburban development, Las Vegas.

townships, school districts, special districts, and metropolitan level planning agencies. Each of these governments has different powers, and many of them rely on planners of some sort or another. Some may decide to outsource their planning needs to a consulting company, but many prefer to hire in-house planners. There is clearly a huge difference in the number of planners employed, with big cities containing large departments of planning, whereas many townships may hire one person to oversee development or even contract out planning. The Bureau of Labor Statistics reports that in 2004 there were 32,000 planners, up from 13,000 in 1980. This probably does not include large numbers of

mixed system, which varies by province. But generally Canadians abide by discretionary planning controls within the context of a zoning bylaw. An application can thus be rejected for a use that, although obtding by the zoning code, it still considered inappropriate for the neighborhood.

Further differences arise in other countries. For example, France and the Netherlands, like Britain have

very centralized planning. This means that planning decisions for localities are made at the national level in accordance with centain goals to preserve open space, promote social equity, share resources, and so forth. Sweden and Germany have much greater traditions of local control, but they still allow for an enormous government role in the design and guidance of future growth.

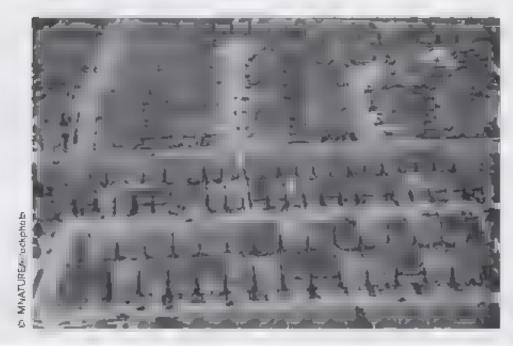


Figure 812.2 Suburban Housing in Toronto, Ontano

people who engage in planning activities such as individuals who work within transportation agencies, environmental agencies, and private companies

Planning is still mainly a public-sector activity Seventy percent of planners work for local governments, primarily municipalities and counties. Nevertheless, private firms employ planners as well, a bit less than 20 percent of the total number. Those firms include both private consulting firms that specialize in a facet of planning (such as historic preservation) and larger companies that wish to have some planners on their staff. A fair number of the planners employed are certified planners—a special designation that requires

an individua, to obtain certain credentials and pass a test—but most are simply practicing planning even if they do not have the same credentials as certified planners.

The development of planning as a profession is tied in with the expansion and bureaucratization of state and local government. In addition, planning as a profession emerged as the tools of planning, particularly zoning, were found to be legally based. In 1917 the American Institute of Planners was established, this later became the American Planning Association (APA), which was instrumental in developing the certification process for planners. Then, in the 1920s.

the U.S. Commerce Department introduced the Standard State Zoning Enabling (SSZE) Act, which was passed by Congress in 1926.

The SSZF Act was significant for three reasons. First, it underlined the growing desire to inject rationalism into the planning process. Then secretary of commerce Herbert Hoover was an advocate of a well-ordered society. He believed that the government should not interfere with the market but should bein to facilitate efficiency, standardization, and greater investment safety. That he was echoing a larger social impulse is evidenced by the fact that the text of the SSZE Act itself became something of a best-seller. Thousands of copies were sold around the country. Second, the SSZE Act delegated much of the state authority for planning to municipalities. This was important because states possessed many constitutional prerogatives, whereas localities possessed almost none. The Commerce Department also wrote up a model zoning code that was legally defensible and could be copied by municipalities across the country. By 1926, some 43 states had enabled zoning and 420 localities had zoning ordinances, must of which were closely based on the model code put out by the Commerce Department. By 1929, after it was clear that the Supreme Court considered zoning to be constitutional, 754 localities containing three-fifths of the nation's urban population practiced. zoning, and most had adopted the model ordinances. Third, with the publication of the SSZE Act, zoning emerged as the principal activity for planning. The sweeping ideals of the City Beautiful movement and the visionaries discussed earlier were cast in the more prosaic concerns of planning a city that was standard and efficient

After the 1920s planning became entrenched as an institution at several geographic scales. Localities were on the frontlines of writing and enforcing the new ordinances. States were encouraged to establish planning agencies, and all but one had established these by 1936. These were not exclusively or even predominantly oriented to arban issues, but they did attempt to gather as much information as possible about the physical environment, social charactensues, economic activity, and the building stock

Regional authorities were also established. The most famous of these was the Tennessee Valley Authority, a New Deal program created in 1933 to oversee a man-made system of dams, lakes, and hydroelectric generators across several states. At the federal level, the New Deal ushered in a host of agencies and boards that were charged with building housing. highways, and public works.

Planning as a profession also became more diversified. Although zoning and subdivision approvacontinue to be a principal activity of many manacipa. planning agencies, planners as a group have special ized in tasks spread among different public agencies. and the private sector. A recent survey of planning activity indicated that nearly all planners are involved with "regulation" to some degree, but, beyond this, there is considerable divergence. Many planners continue to be hired by local governors, charged with developing comprehensive plans, zoning codes, subdivision regulations, and other procedures intended to guide urban development. Other planners become stivulved in urban renewal efforts and in providing housing to people who cannot afford private market housing.

Still other planners and planning agencies are involved in panning for regional transportation needs. The establishment of the interstate highway system in 1956, a massive undertaking designed to blanket the United States in a network of limated access highways, as well as the creation of publicly financed mass transit, commbuted to the growth of metropolitan agencies that made choices over where best to place the new transportation infrastructure. Environmental planning arose out of (1) the awareness that governments need to regulate private activity in order to minimize harm to the natural environment; and (2) a series of laws passed in the 1960s and 1970s that set out the institution... procedures to de this.

Governments also have become more involved in economic development and have sought to increase private business activity in a region as a way to promote overall economic growth and to alleviate poverty in specific neighborhoods. Downtown redevelopment has emerged as a popular specialty among planners who look to revitalize languishing central business districts

Political Nature of Planning

Regardless of the particular activities in which planners are involved, it is important to note that planning is a highly political activity. We can look at this reality in regard to (1) the different scales of planning concern, and (2) the many different stakeholders involved in the planning process.

Planning takes place at several spatial scales, In most cases, local governments are on the frontlines of planning. They are most immediately affected by what takes place in a city, town, or township. County governments may also become involved; in many instances, counties are charged with developing the appropriate zoning and regulatory mechanisms for immeosporated jurisdictions within them. They also sometimes have more regional planning duties such as coordinating the planning objectives of local governments within the county.

Beyond the local level, state and federal governments have long played a large role in planning. State governments are involved in several ways.

- 1 States are property owners in their own right. They own highways, airports, government buildings, universities, and state lands. State actions regarding the use of their property can have a tremendous effect on development. Deciding where to locate a highway, for instance, affects the future for urban and rura, areas alike. States may also promote certain areas through their activities. In the 1970s, for example, the state of Massachusetts attempted to tocate all state government buildings in the inner cities to spur economic development.
- 2 States are grantors of a locality's legal rights. Cities and towns must conform to state guidelines as to what they can and cannot do. For instance, some states require municipalities to file a comprehensive plan. Other states may exempt properties under a certain threshold size from planting oversight, meaning that they do not have to follow the guidelines imposed on target properties.
- 3 States are the originators of various land-use regulations. They may set out a broad land-use plan for munk spalsties to follow (e.g., requiring a certain tot size along a lakeshore). They may provide certain generities (e.g., stiputating that development be located in already urban areas), or they may modify or revoke a local action.

 States are a funding source for local planning initiatives.
 Much of the money—even federal dollars—comes to the states, and the states decide where the money should go.

The federal government also has a role to play in planning. In the United States, the federal government has tended to shy away from any sort of national land-use planning (providing a clear contrast with many European countries). Nevertheless, its inflaence on planning is still proloand. This was true as far back as the 1920s with the passage of the SSZE. Act and with several significant Supreme Court decisions. It is still true today, for many reasons. First, like the states, the federal government is a big property owner It owns mulitary bases, post offices, arsenals, hospituls, government buildings, and huge tracts of land. What the government decides to do with these properties can play a major role in how communities fare During the 1990s, for example, the government initiated a round of military base closings. This was a sensitive issue, not primarily because of its impact on military readness, but because shatting a base would lead to the loss of a major employment source, which in turn could empple a socal economy that had come to depend on these jobs.

Second the federal government has adopted many regulations and issued many laws that affect land-use choices. Among these are the Clean Water Act, the C can Air Act, the Americans with Disabilities Act (requiring that buildings, streets, and sidewalks make accommodations for people with disabilities), and the Endangered Species Act. The federal government has also passed laws requiring that mortgage lenders locate in underserved neighborhoods. And, of course, the mortgage interest deduction and the establishment of federal protections for mortgages that were discussed in Chapter 8 have played a huge role in homeownership and suburban development. This is: only a fraction of the impacts with which local planning officials and private developers must contend. Third, the federal government is a source of funding. It offers money to states and localities, it can also withhold money if certain rules are not followed

At any scale, planners have to be politically astute Perhaps in large planning agencies, some planners may be shielded from some of the politics. They may conduct some of the more technical aspects of planning gathering information, running some analyses, making maps, and so forth. But most planners are thrust in the middle of a very political process. They must consider the interests of myriad stakeholders who would be affected by the plans. Stakeholders is an umbrella term that includes all of the interests involved: government, private developers, financiers, and residents.

Figure 12.9 provides some idea of just how elaborate any planning decision can be. At the center of the figure are the professional planners themselves, charged with drawing up the plans and making recommendations. They must answer directly to public officials—city councilors, mayors, county commissioners—and also to "citizen planners"—those who have agreed to serve on planning boards boards of appeal, environmental commissions, and other oversight bodies. Planners are further motivated by regulations and funding provided by state and federal governments. Beyond this center are a legion of interested and affected parties. The planning group is

after all generally regulating a property that is being developed by a private property owner and that will be inhabited by, or located next to, some residents. Developers must get their funding from banks. The residents may decide to organize into a formal organization, garner the attention of the news media, or pressure politicians. And everybody in a highly charged case will retain the services of attorneys.

To note how this web of stakeholders plays itself out in any planning decision, consider the case of a proposed low-income housing development. On one hand, state and federal governments often require that low income housing be spread to different communities, although their approach is more carrot than stick. The federal government releases community development block grants to those municipalities willing to do this. And the idea of fair share housing—that all communities in a region should participate in providing low-income housing—still affects policies in many metropolitan areas. Some states, such as New Jersey, have even made this a requirement (Box 12,2), In addition, there will often be a developer interested in providing such housing. She or he may be

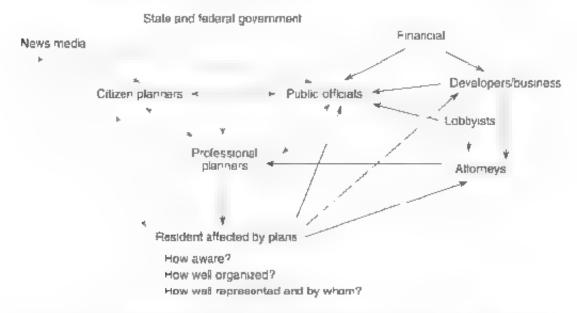


Figure 12.9 Any type of community planning affects a large group of people and entities, the *stoxeholders*. This J. grains lows the relationship between the different stakeholders in the planning process. Professional planners are in the modificant must lake no account a great diversity of interests. *Source:* Authors

BOX 12.2 THE SEARCH FOR FAIR SHARE HOUSING IN NEW JERSEY

Fair share housing refers to the goal that every community should pick up it "fair share" of moderate and low-income housing. In practice, provisions regarding fair share housing are difficult to come by Although society recognizes the need to build housing that is available to the poor, many communities are loathe to allow such housing to be built within their jurisdiction, prohibiting small lots, mobile housing and mult family housing. As a result, much of the public housing or publicly assisted housing has been located within the timer cities. Even though housing discrimination per seas allegal, there are few rulings that prohibit a community from designing zoning codes that are exclusionary.

New Jersey is the most densely populated state and, along with California, the most urban state it has also been at the forefront of creating the legal background for fair share housing. In the early 1970s, the New Jersey Supreme Court ruled that a township could not designate minimum lot sizes if regional housing needs dictated otherwise. The most famous set of legal cases involved the New Jersey township of Mount Laure. The New Jersey Supreme Court in 1975 held that a municipality had to "provide a realistic opportunity for the construction of its fair share of low and moderate-income housing" (from Culting worth, 1993, p. 67). In other words, communities were prohibited from instituting exclusionary going. The second

Mount Laurel decision, in 1980, reaffirmed these principles and further argued for inclusionary zoning regulations that would be designed to encourage low-income housing. These regulations might consist of incentives to developers, such as higher zoning densities, or some stipulations. One stipulation that came out of the Mt Laurel decisions was one lower income housing and to be built for every four market-rate units (Figure B12 3)

The Mount Laurel decisions were partially successful in putting fair share housing on the radar screen and Inproclamming a need for each municipality to provide for low-meome housing. However, resistance to the court's decision among New Jersey state politicisms and municipal leaders led to a watering down of the original intent. The New Jersey Fair Housing Act, passed in the 980s, weakened any oversight over exclusionary zoning while loosely satisfying the court's raling. As a result, few low-income housing tauts were actually constructed. After 2003, there were further complaints that the Council on Affordable Housing, established to overser and execute New Jersey's fair housing obligations, effectively reduced the requirement to one affordable housing unit for every ten new units. In fact, California, with its own fair share housing requirements and incentives for developers, has taken the lead in dies area.

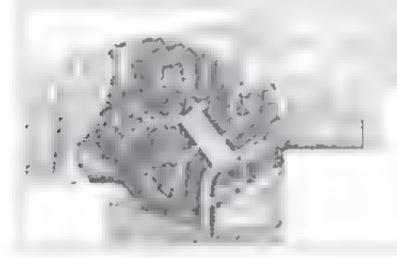


Figure B12.3 Mount Laurel, New Jersey source: Authors,

mutivated by the prospect of securing low-income housing tax credits or by some other encouragement, but whatever the reason, the private will is there. There may also be advocacy groups for the poor that are looking to promote affordable housing wherever it can be built.

On the other hand, residents who live next to the proposed development may have no desire to live near low-moome housing. They may acknowledge the general need for such housing, but they clearly do not want it close by (see Box 8.2). Planners label. this attitude "not in my backyard," or NIMBY. The types of land uses that are often found objectionable are termed "locally unwanted land uses," or LULUs. Low-income housing is a LULU that provokes a NIMBY reaction among nearby residents. These residents make their wishes known to local government officials and to members of citizen planning boards. The news media may also bear of the issue and start reporting on it, which widens the circle of potential conflicts. All sides in this dispute are likely to hire lawyers to present their side of the argument, and they may appeal to the planning boards or to the courts, or both. As a rule, it is the professional planner who must bear the burden of mediating among all of these interests. The planner becomes a flashpoint for the general untation. However, he or she can do attle to adjudicate the controversy. This is left to the elected officials and often to the courts

COMPREHENSIVE PLANS AND TOOLS OF MODERN PLANNING

Modern planning begins with a document known as the comprehensive plan. The comprehensive plan is a plan that is intended first to catalog the existing land uses, population, and an economic profile within a community and then to guide community development well into the future. From a political point of view, the comprehensive plan becomes a critical document that helps to lay out the goals for a community, institutionalize the planning process, create a legal foundation for specific regulations, and bring together all of the different stakeholders within a community

The historic roots of comprehensive plans can be traced to the City Beautiful movement and the widespread development of parks in the late nineteenth and early twentieth centuries. Frederick Law Olmsted, the influential park developer, argued the ments of comprehensive planning in a 191 address. Much of the legal and political action during the 1920s also paved the way for the widespread adoption of comprehensive plans. Secretary of Commerce Herbert Hoover championed zoning, but he broadened his focus to include planning in general. The Standard City Planning Enabling Act, passed in 1928—two years after the SSZE Act—recommended that plans be developed that take into account all of a community's infrastructure, public buildings, and possible zoning plans when locating new buildings and infrastructure. The court decisions at that time indicated that zoning decisions, for instance, needed to be incorporated as part of a larger plan. A comprehensive plan became the vehicle to accomplish that objective. The Housing Act of 1954 helped to make comprehensive plans a reality for thousands of communities. It provided funding to develop master plans, and it allowed for these communities to hire the necessary staff to develop and maintain these pians. Of course, because zoning was a primary element of any plan, these suggestions only furthered the influence of this particular planning tool

Elements and Steps in Comprehensive Plan Development

Although most communities of a certain size are generally expected to have a comprehensive plan, the size and sophistication of such plans vary tremendously. Large cities often provide beautifully rendered documents, with lots of color pictures and graphics. These are also quintessentially political documents, having been produced by arge planning staffs but also with the input of thousands of community residents. Smaller community plans are often simpler, but they still contain many of the following key elements

- A long-range vision for the community that usually at presented as a series of goals for the community
- A snapshot of the physical and human geography of the city. This is an inventory of infrastructure such as

streets, utilities, bridges and ports, publicly owned land, including park land, environmental aspects of the land, historic buildings and other cultural resources, population characteristics of all soris, economic characteristics, and more. This aspect of the plan can be a useful compendium of facts that allows planners and other city officials to see exactly what they have to work with. For instance, an important feature may be an inventory of land that is open for more intensive development. Communities with much developable land are in a different position than those that are built up, with little available land remaining.

- An overview of historical and projected trends; for instance, projections of population growth and land-use patients and how this may translate into community needs
- Methods on how to handle here various trends and fit them within the overall and specific community goals.
 This is the implementation portion of the community plan and, from a planning point of view, it is the most important part of the document.
- Review procedures that show how the community administration will handle changes and implement any new proposals and how community citizens will be able to participate

The comprehensive plan will present many of these facts for the community as a whole, but it will also subdivide the city into planning districts or zones. This allows for a more detailed breakdown of exactly what may happen to particular sites (Figure 12.10)

A comprehensive plan is an enormous undertaking, and, for that reason, a new one is produced only once every several years. Four steps are involved in creating a plan collecting data, formulating community goals, creating the plan, and implementing the plan.

Data Collection Acquiring and analyzing data is the most technical aspect of the plan preparation and is conducted by planners. Planners collect baseline data regarding the physical site, existing development by type, infrastructure, public land, facilities, population, and whatever else would be useful. The emphasis is on those items that the planner needs to know in order to guide future projects, so trends are crucial. We already mentioned one item—developable land—but other items also matter. For example, age distribution is important, because

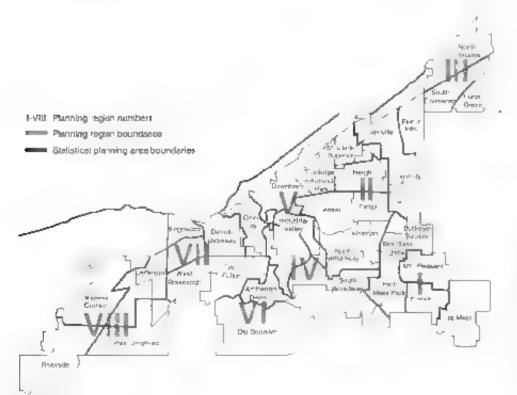


Figure 12.10 Map of a planning district in Cleveland. Ohio. This map comes from Cleveland's own comprehensive plan Planning districts or zones allow for a more detailed analysis of what may occur in particular neighborhoods. Source: Authors.

planning for 100 new senior citizens will have requirements that are different from preparing for 100 new kindergartners. Likewise, planners need to know which parts of the community are growing and which are remaining stable or declining. The data the planner uses can come from a variety of sources, such as the U.S. Census, the Bilineau of Labor Statistics, state agencies, and private companies that provide updated

and specialty data. In addition planners gather some data themselves. Today, data analysis is aided by computer applications: databases, spreadsheets, statistical packages, computer-aided design programs, and geographic information systems (GIS). The use of GIS in particular has made the analysis of spatial information—which planners use all of the time—much more powerful and efficient (Box 12.3).

BOX 12.3 TECHNOLOGY AND ERBAN GEOGRAPHY

GIS AND URBAN PLANNING

In recent years, the practice of planning has been transformed by the increased sophistication of Geographic Information Systems and related computer models (Figure B. 2.4). This makes a great deal of sense considering he urban pianting involves the synthesis of a great deal of locations, data. Consider a decision on where to place a new manicipal building such as a fire station. Several potential parcels are spread throughout the city and the planner may be called upon to choose the site that (1) will provide the greatest degree of access, thus lessening response times, (2) minimize noise and disruption to potential neighbors, (3) be suited to the particular site characteristics, and (4) be the most cost effective. These and similar variables would be important for any planner to consider, but the analysis is perfectly stated for a geographic database. Pieces of information can be layered and the particular benefits and drawbacks for each potential parcel can be easily disclosed. Should carcinistances change-say with the projected development of a new street or new residential construction in a part of the city—the database can be rapidly appared.

The use of geographic information systems software has permeated planning agencies around the world. It can be used to track the existing geographic trajectories of urban growth and note how well these accord with available infrastructure and may encreach on environmentally sonsitive lands. It can enable the planner to create so-colled "build out scenarios" that integrates the land available for development with current zoning maps in order to envision possible future patterns of growth. It can be used to assemble and after property maps, zoning maps, land use maps,

and infrastructure maps. Because the material in a GIS is digital, the information can be made available to the wider community over the Internet. Users may be able to access information and immediately note the essential characteristics of a particular property.

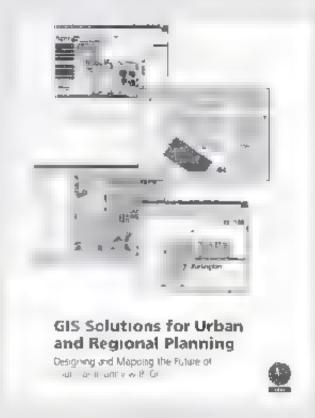


Figure B12.4 Picture of GIS applications Source Da-We) Liou, GISP Delaware County Regional Planning Commission.

Goal Formulation The information gathering step of developing a comprehensive plan does not involve a lot of politics, but the second step, formulating goals for the community, does. Comprehensive plans usually begin with a vision and a statement of goals. There is generally some consensus on what people wish for their community, continues growth so that the tax and employment bases increase, preservation of natural and cultural features (so that the community treasures are not lost and the community's character can be maintained), and provision of strong community services (so that civic government can be seen as doing its job). There are a few differences—one community may worry about excessive growth while another struggles to reverse years of blight-but the goals of different communities tend to sound a tke.

Although the resulting language can be boilerplate, that is, essentially the same for each plan, the process of determining these goals is time-consuming. The planner needs to elicit input from a wide spectrum of community citizens. She may use surveys, public meetings, focus groups, and other techniques to get a grasp on how residents define a livable city, what they believe should be improved, what sorts of structures and facilities need to be updated, improved, or replaced; and how they perceive their community. The number of people who have input should be limited only by the number. of people who are willing to take the time to give their views. In some cases, this process can generate many perspectives. The formulation of the Portland, Oregon, Metre Plan, for instance, resulted from the input of 17,000 people

Plan Greation Creation of the plan is another point where the professional planners come in and attach a comprehensive plan to maps and language describing the conditions, goals, and means of implementation Maps are a critical component here because they enable policy makers and citizens to visualize both the past and the projected future geography of a region. Legally, any subsequent actions by the community will have to be based on the comprehensive plan, and the city will have to

adhere to these precepts for the foreseeable future. The Florida statutes, for example, state that.

A and development regulation shall be consistent with the comprehensive plan if the land uses, densities or intensities, capacity or size, timing, and other aspects of development by such preguation are compatible with and further the objectives, policies, and uses, and densities or intensities in the comprehensive plant (from Meck, Wack and Zimet, 2000, p. 347)

The plan itself does not usually get into details—it is not the same thing as a zoning ordinance—but it does lay the groundwork for future development. For example, it may contain broad language to the effect that an area should continue to develop single family houses or that an area will be earmarked for future industrial development. This is where the basic elements of the land-use plan, discussed above, are laid out.

Implementation The fourth and final step of developing a comprehensive plan involves the implementation of the proposed objectives. Because the plan is broad, the set of implementation strategies must be broad. These strategies are likely not contained in the plan itself—this would make it too cumbersome—but are instead developed in accordance with the plan. Some of the strategies that are span off include:

- A zoning code.
- Subdivision regulations.
- Growth management strategies
- Capital improvement requests
- Earmarking of species zones (e.g., an industrial park).
- Resource protections

The hope is that various projects will not collide with one another, for example, where an industrial park harms a key natural resource. There is also a budgetary aspect to implementing a plan, because most of what the community wants to do costs money. How to pay for all of these items is a large issue, and certain projects might have to be delayed.

Zoning

Zoning is a way to regulate land use. Land is divided. into zones in which the number, types, and features of buildings are restricted, prohibited, or permitted. As discussed earlier in this chapter, zoning developed as a means of excluding incompatible uses. The early zoning laws were promulgated as a way to keep out commercial buildings, breweries, and overly tall buildings. New York City has the distinction of developing the first truly complete zoning ordinances in 1916. These ordinances were developed because of the accelerating problems of congestion, lack of sunlight, incompatible uses, encroachment, and loss of open space. What made New York's ordinances special was that (1) they covered the entire city, (2) they divided the city into four use zones, and (3) they further created five building height zones (Figure 12.11). Moreover the zoning maps that were developed considered preexisting land uses, reinforcing these putterns rather than trying to impose an overarching planfor the city. This was not a visionary document, but rather a truly practical response to a bustling and growing metropous.

The success of New York's zoning ordinances later encouraged the federal government in drafting the 1920s state and city planning and zoning acts discussed earlier. Zoning became the primary means of implementing land use controls, but it was generally set up in such a way as to follow what was already in place. Since zoning has been established, the general presumption has been made that a property owner can develop his or her property in accordance with what is allowed in the zoning district. Any deviations or variances from allowed uses are required to go before a special board, sometimes called a board of appeals.

Today, zoning entails the determination, location, and detailed description of use zones, districts that are based around one or more specific land uses. The most common categories are commercial, industrial, and residential. These may be subdivided, however. For example, single-family residential is often set apart from multifamily residential, duplexes and apartments). Heavy industrial is often distinct from light industrial, with the "heavy" category referring to industries that are especially intrusive, polluting.

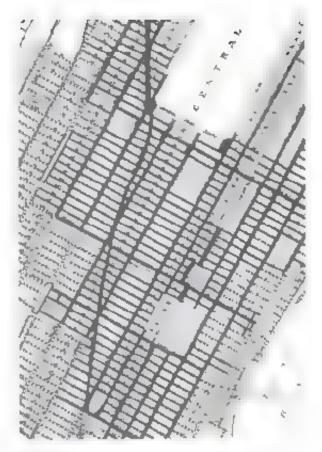


Figure 12.11 New York City zoning map of 1916. The map shows streets (in bold black) zoned for residences and businesses, streets in white are only residential; streets with dots are unrestricted. Source Barnet, Jonathan, and Gary Hack, 2000.

noisy, and perhaps dealing with toxic substances. Similar distinctions may be found with commercial districts as well. These use zones may be combined with density zones. These are especially applicable to residential land, and they determine the mino of lot acreage to dwelling. For instance, some zoning districts allow one dwelling on every quarter acre, whereas others may allow one dwelling for every five acres. These are minimum lot sizes, and property owners are free to exceed the stipulated of size. Another type of zoning district is a height district, which mandates that a building not exceed a particular height. Height districts are common within large cities.

Many communities also permit planned development districts (or planned-use districts), which are intended to create more flex bility within a particufar part of the community and may lend themselves to more mixed uses. These districts may allow for a greater variety of uses than standard districts, and are often customized to a particular neighborhood in the city. Planned development districts may come under the heading of special districts, which can include university districts, downtown districts, government districts, flood plain districts, mobile home districts, and others. Zoning ordinances include many. requirements—for parking, how a building is situated. on the property, and permissible uses. Thus, the creation of special districts can be helpful in promoting more flexible development.

Several issues are involved in zoning. The earnest zoning districts were cumulative. The use zone indicated the "most intense" uses allowable. Thus, an industrial zone could include single family hoases, but a residential zone could not include factories. Cumulative zones continued to promote more functional integration in areas where residential uses were proximate to other uses, for instance, apartments located over storefronts. By the 1950s, however, cumulative uses had given way to exclusive uses, in which no other use is permitted in a zone Exclusive zoning regulations have created functionally segregated districts such as industrial parks shopping centers, apartment districts, and the like.

Another issue involves defining some key terms such as family. Most zoning refers to family units and restricts the number of unrelated people who may ave in the same dwelling unit. This is, of course, a big issue for college students who often live with several roommates for financial reasons. It can also be an issue in nontraditional family situations. For example, codes can be written in such a way that a grandparent could take in a daughter's stepson.

Zoning can often be exclusionary. A zoning ordinance can mandate a large minimum lot size in order to retain a community's rural character or to encourage low-density residentia, patterns. Such large-lot zoning is a favored strategy of both rural townships and affluent communities and is discussed in more detail later in this chapter. Communities are often forced to grapple with how to handle truly objectionable uses. Some districts, for instance, may be designated as "dry," meaning that they prohibit the sale of alcohol. Such restrictions can become a problem for restourants that seek to move into a commercially zoned but alcohol-free area. More troublesome is the regulation of sexually oriented businesses like strip clubs. Zoning codes must be specific as to how these businesses are defined and how they can be regulated. For example, the Akron, Ohio, code is quite precise on what constitutes a sexually oriented businesses are prohibited. A sexually oriented businesses are prohibited. A sexually oriented businesses cannot be located within a designated distance from a school.

Zoning codes mandate a certain amount of avail able off-street parking. For residential dwellings, this may be one parking space per unit, or sometimes more spaces in affluent greas where the expectation is that families own two, three, or more cars. Nonresidential establishments also require parking, depending on the intensity of use. For commercial establishments, requirements are measured as one parking space for so many square feet of retail space. Commercial establishments may also require leading facilities. In these situations the zoning ordinances for parking are often guite generous and are generally based on saturation shopping periods (like the day) before Christmas). For this reason, new stores tend to be surrounded by vast expanses of parking that is only partly used Figure 12.12). Zoning parking



Figure 12.12 Zoning today requires a great deal of parking for offices and stores. This often results in a landscape like Houston's, where buildings are surrounded by acres of parking lots.

requirements can create big problems for inner-city neighborhoods. Many inner-city properties were built before automobile traffic became widespread, and so cannot possibly conform to parking regulations. Adjustments, such as sharing parking among establishments, greater reliance on curb parking, or use of commercial parking decks, are necessary in these cases.

In addition to zoning codes, planners are also responsible for drawing up and administering subdivision regulations. Most new housing units built in the United States are part of subdivisions, in which a tract is divided into two or more parcels. In practice, subdivisions contain dozens of parcels on which a developer builds new houses, townhouses, or apartments. The developer is also responsible for all of the other elements of the tract streets, sidewalks, drainage, signage, and utilities. There may even be a requirement that enough room be left over for a neighborhood park. This makes a subdivision a work of collaboration between the developer and the planner. The developer normally must adhere to a community's subdivision regulations and cannot developthe property until his or her plans are approved. Modern developments owe their uniform look to fairly standard subdivision regulations.

Problems with Zoning and Responses

Zoning has had a dramatic effect on the development of cities and towns. Certainly it alters the impact of land value and the land value curve discussed in Chapter 5. By prohibiting certain uses, zoning regulations may prevent a property owner from developing his or her property to its most fugrative use. A parcel in a neighborhood zoned as single-family residential may be worth much less than if the property were zoned for anartments. Behind the more technical aspects of zoning swirl an array of local interests, who stand to gun or lose depending on the delineation of zoning lines and the precise wording of zoning definuions. Zoning has also been enticized because it appears at times to obscure an overarching vision of the community and to promote social inequities.

Effect of Zoning on Community Zoning tends to engender a great deal of inflexibility. It creates a system that is standardized and, to some eyes, boring. The best known critic of zoning (and planring in general) is Jane Jacobs, who described its pitfalls in a book entitled The Death and Life of Great American Cates. Here Jacobs (1961) wrote

If it appears that the rebuilt portions of cities and the endless new developments spreading beyond cities are reducing city and countryside alike to a monotonous, unnourishing gruel, this is not strange. It ail comes ... out of the same intellectual dish of mush, a mush in which the qualities, necessities, advantages, and behavior of great cities have been utterly confused with the qualities, necessities, advantages and behavior of other and more ment types of settlements. (pp. 6-7)

Jacobs's critique of planning in large cities also could have applied to zoning in small towns. A harsh zoning entic, James Howard Kunstler (1996), wrote that

If you want to make your communities better, begin at once by throwing out your zoning laws. Get rid of them. Throw them away. Don't revise them. Set them on fire and make a public ceremony of il. (p. 110)

Among some of the problems that Jacobs, Kunstier, and other enties have noted are the following

- The exclusive fand uses mandated by most zoning create. functionally segregated districts that divorce where people work and shop from where they live. Modern zoning does not allow for the neighborhood thop that people walk to, and instead encourages large shopping centers that people have to drive to.
- The parking requirements of zoning ordinances have led to stores surrounded by huge parking lots that limit walkubility.
- Street requirements mandate very wide streets in restdential areas-sometimes wide enough for parking on both sides and for two garbage trucks to get past each other without either having to yield. These escourage faster automobile traffic while discouniging pedestrian movement. Mareover must new subdivisions are created without tree-lined terraces between sidewalk and street, because traffic engineers worry about cars runnang into the trees.

- Setback requirements mean that houses and stores need to be placed far behind the lot line. This discourages neighborliness and often encourages houses with garages in the front.
- Much of the plot design requires every parcel to have a certain amount of acreage and a certain geometric regularity. The result is that it becomes more difficult to accommodate natural features such as wer ands, woodlands, and watersheds into the patchwork of subdivisions.
- Minimum tot sizes have also led to more sourceconomic and life-cycle segregation. Housing developments tend to offer housing within a particular price range and with similar configurations. This means that neighborhoods are fairly homogeneous.
- Aithough zoning encourages uniformity within a subdivision or a community the zoning plans of one community may not correspond with the zoning plans of a neighboring community. This creates a patchwork zoning that may not work well for a larger region.

These shortcomings can be tied into a larger set of concerns regarding walkability, neighborhness, social segregation, and unnecessary destruction of the natural environment. They have spurred an interest in creating communities that do not slave these problems, which is called the New Urbanism, first introduced in Chapter 7 Ironically, these "new" communities hearken back to the past—often in a period. before zoning codes were as prevalent. For this reason, they are sometimes referred to as neotraditional communities. The tenets of neotraditional communines promote (1) walkability, (2) smaller lots clustered together, (3) houses close to the lot line, (4) narrower streets that are often laid out in a gird pattern, (5) functional integration, and (6) more socioeconomic and life-cycle integration. The overriding goal of these designs is to promote a sense of place.

Deve opers have spearheaded this New Urhanist movement and have constructed some communities based on their principles. Such communities have become a part of the planner's lexicon and have diffused in some form or another to just about every state. Proponents of the New Urbanism, including Andres Duany, Elizabeth Plater Zyberk, Peter Calthorpe, and Todd Bressi, have encouraged the development of communities where automobile

dependence is reduced. They have also borrowed freely from the ideas of Kevin Lynch (1960), who has written about **urban imageability**—"that quality in a physical object which gives it a high probability of evoking a strong image in any given observer" (p. 9)—and the elements of urban design

In their book Suburban Nation. Duany Plater-Zyberk, and Speck (2000) offer a few ideas about how to make a better town or suburb. One idea, functional integration or mixed-use development, is an anchor of new town building. Duany and colleagues advise developers to build corner stores within every new neighborhood. This can lead to even more retail development that is well connected. to the rest of the neighborhood. They also promote more socioeconomic and life-cycle integration, by encouraging the mixture of income levels and generations in their neighborhoods. Another idea is connectivity, which states that neighborhoods should be constructed so that each new subdivision is connected with existing neighborhoods. Modern development practices rely heavily on a system of collector roads; the New Urbanism favors the grid puttern (Figure 12.13).

Duany and colleagues also advocate everything that will increase walkability as opposed to automobile dependence. For this reason, they propose the construction of pedestrian sheds, where the elements of each neighborhood are located within a 5-minute walk. Building pedestrian sheds correctly requires smaller lot sizes, clustered together. Pedestrian sheds can also prove beneficial for mass transportation, and in the 1990s Peter Calthorpe advanced the notion of transit-oriented developments surrounding a transit stop.

Finally Duany, Plater-Zyberk, and Speck (2000, promote a greater definition of the streetscape, accomplished by a number of methods. First, they propose building houses close to the lot line so that people can easily interact with individuals walking on the sidewark. Moreover, they advocate narrower streets than is the conventional practice, creating a slower traffic pattern and more neighborly interaction across the street. Finally, parking requirements should be reduced, and parking should be visually



Figure 12.13 Illustration of collector made and functional segregation within many suburban communities.

de-emphasized. This means that parking should be placed behind, instead of in front of, buildings and houses

The ideas of new urbanism have found favor in most parts of the country (Figure 12.14). Even the Walt Disney Corporation has jumped on board. bu tdmg a neotracitional town near Orlando. Florida Certain elements of new arbanism have become especially common. Cluster zoning, for example, provides a way to develop only part of a lot. Rather than building one house on 2 acres, the idea is to take the lot as a whole and develop only part of it So, a 40-acre lot could accommodate 20 houses, but these might be clustered on only 10 acres, leaving 30 acres for open space. An additional benefit is that the houses may be more affordable. Mixed-use zoning can also accommodate different land uses. Other forms of zoning have become part of the planner's tool icit

At the same time, many developers, planning officials, and local politicians are leery of the ideas of New Urbanism. Developers worry that customers will not purchase houses that have smaller lots, are built near the let line, or have garages in the back rather than in the front. Planners are forced to alter their zoning codes to accommodate most of these ideas. Traffic engineers are unlikely to endorse nar rower streets. Cluster zoning in particular often provokes some anxiety. Residents worry that it will lead to denser development and perhaps a less exclusive neighborhood. Politic ans often respond to organized



Courtesy of Duany Plater-Zyberk & Co.

Figure 12.14 Seaside, Florida shows many of the elements of a New Urbanist community.

resistance to cluster zoning and may try to prohibit this type of development

Overall, the ideals of New Urbanism confront many practical problems stemming from the realities of contemporary metropolitan areas. Large-scale housing developments in the New Urbanist vein must deal with the economics of housing provision (see a more detailed discussion of housing markets) in Chapter 8), such as attracting home bayers and bringing in developers for the needed retail and transportation related functions. A second major issue is that even a large New Urbanist development must interact with the surrounding arban fabric. For developments built on the edge of major metropolitan areas, like Kentlands in Ganhersburg, Maryland, residents will have to use their cars to travel to work and shop outside the development because the surrounding suburbs often do not share the New Urbanist design values, Ultimately, some New Urban neighborhoods (especially developments like Calebration or Seaside, both in Florida) have come under considerable criticism as being elitist, overplanned, and socially constricting enclaves for the neo-rich.

Exclusionary Zoning of Class and Race Another problem of modern zoning is that it has been used to create uniform places designed to keep out people that a community may consider "undesirable." Modern subdivisions slice communities into fairly narrow income categories. Housing valued at \$100,000 to \$150,000 is found in one subdivision, housing from \$200,000 to \$300,000 is located in another, eate housing at \$450,000 plus is found in yet. another. This segmentation of property classes differs in degree from previous class separations, where neighborhood wealth was more broadly defined and it was common to see a modest home built near by a wealthy estate. In a fragmented metropolis, communities include only a narrow band of housing classes. The entrance fee to live in an affluent suburb may be the ability to buy a half-million-dollar house. Gated communities impose their own restrictions and thus represent an additional layer of politics and exclusion

The political component of all this has to do with how local governments seek to encourage particular housing types and classes while they discourage all others. Generally governments are interested in maximizing their property (as base, minimizing the need for certain services (especially those for low-income people), and promoting higher property values. The mechanisms for accompashing this are fairly simple. The easiest way is through the use of zoning. Communities may designate a large minimum lot size-1, or 5 acres—and they can also require such ameni ties as a two-car garage, a minuaum square footage, a minimum number of bedrooms, or a required number of bathrooms. Zoning may also exclude all multifamily housing, this tends to minimize rentals. Such zoning decisions may be made for a number of reasons. Large lots are often touted as a method to retain the rural character of a community or to preserve local property values (Figure 12.15)

In addition, modern zoning shans functional integration, in which commercial, industrial, and all types of resident all uses are placed together James Kunstler points out in *Home from Nowhere* (1996) that this separation of land uses largely eliminated the new building of apartments located over the shop, one of the main types of affordable housing before World War II. Whatever the rationale such restrictions operate as exclusionary zoning that inhibits the development of affordable housing.

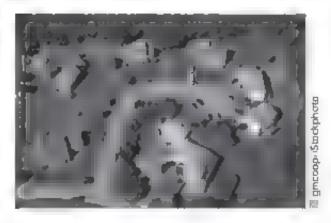


Figure 12.15 Large-lot zoning. Mandating large lots of more than an acre makes land and housing prohibitively expensive to many potential residents.

Exclusion need not always be economic. Zonng has an ignominious history of keeping minority
groups out of neighborhoods. Some rudimentary zonng laws were clearly designed for this purpose. For
example, in the 1880s San Francisco passed a law
that restricted Chanese laundness to certain parts of
the city, while New York City zoning laws restricted
the spread of immigrant garment districts onto Fifth
Avenue.

Although overt tactics of racial exclusion are now diegal, zoning brought about by local governments can have very real racial consequences even today. To understand this process, consider that much of the recent suburban growth resulted from "white flight" out of central cities and that most metropolitan suburbs contain a disproportionately small number of minority groups. Moreover, research indicates that only a fraction of the central city/suburban racial imbalance can be accounted for by differential ability. to pay for housing or by differences in housing pref empces. What is left is the legacy of past and present discriminatory practices in the housing market that has kept so many of the independent communities ringing the central city nearly all white. The uses of aws and regulations to bar African Americans and other groups from living where they choose are dearwith in substantial detail in Chapter 9

It can be guite difficult for governments on a larger scale—whether they are metropolitan, state, or federal-to overrule the zoning decisions made by local communities. The idea that cities are considered to be "creatures of the states." with little constitutional protection, is counteracted by the value that Americans place on local control. Legislatures, which are increasingly made up of people who represent suburban districts, and the courts have been reluctant to abridge this authority. Some attempts have been made, however For example, in 1969. Massachusetts passed an Anti-Snob Zoning Act that authorized the state to override local zoning in communities with less than 10 percent moderate-income housing. In the 1970s a set of court rulings first found that local zoning could be invalidated if it had a racially discriminatory, though not economically discriminatory, effect. Later, this was narrowed to

invalidate only those zoning codes with racist intent intent is harder to prove than effect, and that has made the overriding of local zoning statutes extraordinarily difficult. And when it comes to economic exclusion, communities are given a fairly free rein to do as they please (see Box 12.2 earlier in this chapter).

The best way to foster racial integration in the suburbs is through the concerted efforts of those communities. Studies have shown that municipalities that are unconcerned about promoting integration or that actively seek to avoid it can often be successful. They can use their powers to block particular types of housing and thus develop a reputation as minority unfriendly communities Conversely, some communities have shown remarkable success in fostering integration. A study of two Cleveland area cities-Shaker Heights and Cleve, and Heights—demonstrates the power of local authorities to promote racial integration (Bender 2001). Beginning in the early 1960s, when a great deal of racial transition was taking place, officials in these communities developed policies designed to encourage racial integration and to discourage white flight, Among these policies were

- Banning "for sale" signs as a way to prevent panic selling
- Encouraging real estate agents to steer chents into miegrated neighborhoods
- Making low-interest mortgage toans available to people who move into neighborhoods where their race is underterresented
- Emphasizing community maintenance in order to aflay fears about blight in changing neighborhoods
- Adopting an aggressive marketing strategy that high lights community amenities and the quanty of schools and other services

Above all, the experience of these two suburbs shows that integrat on efforts require a sustained effort and whole-hearted community participation. Some manicipanties are compelled by court order to open themselves up to more minorities, others may seek to stem the tide of segregation are in the game in such cases, integration strategies rarely work.

Growth Management

Growth management has become a major aspect of planning, particularly in fast-growing suburban areas. Early planners paid little attention to growth management, their main concern was to expedite growth This is still the case in many communities, particalarly to declining inner cities and inner-ring subarbs. Within newer suburbs, however, residents often express concern that their way of life is disappearing in the onslaught of new housing development, new shopping centers, and more traffic. In many cases, the issue is focused on the loss of farm and, as farmers sell off their acreage to real estate developers, hoping to capitalize on the higher residential land values. Much open space is lost in the process. Control, ng. growth in the United States is a very difficult task, however, and attempts to do so have groused furious opposition from the development industry and a great deal of litigation. Farmers also may feel that restrictions curtail the economic value of heir land. Several techniques are used for growth management. with varying effectiveness and political viability.

- Apricultural coming. The simplest growth management strategy would be to zone land so that there can be only one house per 40 or more acres. Generally, there is no requirement that land be used only for agricultural purposes. Agricultural zoning can alleviate the problem of farmland being converted to denser housing lots by not allowing small, suburban-style plots. This might also be done as a quarter zoning system, where a farmer can put down four houses per 160 acres. The problem is that the pressure to overturn low-intensity zoning can be overwheiring. The result is that agricultural zoning may end up being altered. One innovative system, promoted by some developers, has been to design new subdivisions so that they conform with nature, where the impact of the new housing is asserted.
- Building restrictions. Communities may try to limit the
 number of permits they usue a year. This may be a
 fixed number, a percentage of current housing, or some
 way to keep permits in line with available infrastructure. The idea of limits has been tried in Hudson, Ohio,
 where only, 00 new units are permitted each year. Boulder Colorado, tries to limit growth to 2 percent a year.

also making sure that 15 percent of housing is affordable to people on a moderate income. Another approach, implemented in Rasnapo, New York, was the development of a point system, where different criteria were assigned different point values to ensure that development was housed to places where the necessary infrastructure already existed. All of these approaches were challenged in court, but they were all upbeld.

- Growth boundaries. This is a situation in which a
 metropolitan area draws a line beyond which growth
 as limited. Development outside of the boundary may
 not be banned, but is himsted by a lack of government
 investment in infrastructural improvements. Urban
 growth boundaries, then, are really urban service
 boundaries. Investments in infrastructure, especially
 roads, are powerful determinants of growth. If these
 facilities are limited then growth is slower Growth
 boundaries are very common in European cities but are
 less common in the United States.
- Impact fees. This is a strategy in which a community charges the developer extra miney to cover the costs of public improvements. Traditionally most developers have paid for some road improvements and water/sewer lines in the development itself. However, services such as fire stations, schools, and so forth tend to show up inter five example in school levies. Thus the costs of the development emerge after the development is completed and are imposed on all property owners in the tax district. In contrast, impact fees impose these costs on the developers themselves. Many states (like Ohio) do not allow impact fees, but other states have used them. Their effect is to racrease the east for housing, because the impact fees are passed on to the consumer.
- Open space preservation. Several techniques are used to accomplish this goal. Land can be bought outright for parks or open space. One popular approach has been the purchase of development rights where the farmer is paid the difference between what the land is worth as urban land and what it is worth as agricultural land. The payment of the difference then requires that the land be topt as farmland in perpetuity. Although this is not very controversial because it does not involve any takings, it can be expensive, especially for land that has usen in value.

All of these growth management methods have been tried and are likely to become more popular as communities develop and as people seek to preserve their way of life. They are also likely to be controversial. Developers do not like them, nor do many farmers who resent being cheated out of the full value of their and. Community leaders are also wary of limiting their tax base.

WRAPPING LIP

As long as there have been cities, there has been planning. However, it was with the growth of the industrial city in the nineteenth century that the need for planning became more urgent. Planning became a tool by which cities could be made more nexthetically pleasing, more efficient, more equitable, more conductive to maintaining property values, and more environmentally healthful. The seeds of modem planning were established in fits and starts. In the modern era, urban planning was characterized by a tension between the visionaries of planning-those who long viewed the city as a model, an arena for "big" plans—and the machinists of planning—those who viewed the city as a place that needed to be tinkered with and improved in some places but should otherwise be left alone. Over the course of the twentieth century, the practical planners won. Planning today is a professional endeavor, with planners found at all levels of government and in the private sector as well Moreover, many of the tools used by professional planners, especially zoning codes, have been found to be constitutional and have been implemented by governments at all levels. Planners have also been placed in the midst of a very complex and sometimes contentious political process involving politicians, residents, developers, financiers, politicaaction groups, and lawyers.

In the United States, much of the scope of modem planning involves efforts to guide private-sector development. In this chapter, we discussed how the comprehensive plan has become the principal means by which communities perform this task. The comprehensive plan provides an outline of where the community is in the present, where it expects to be in the future, and what sorts of projects and regulations may be used to help stees it. There are several ways in which this plan is implemented. Chief among these are zoning ordinances that mandate property uses, the density of dweflings and buildings, building heights, and several other specifications. Although zoning has led to greater control of land use, critics have decided it for creating communities that are anappeal ing and sterile. The response has been the formulation. of a new type of urbanism that seeks to reintegrate communities. The visionary planners of the turn of the last century have been joined by a cadre of new arban idealists at the beginning of the twenty first century who are seeking to after the nature of modern planning.

Part VI Cities Around the World

CITIES IN THE DEVELOPED WORLD

From city to city and from class to class, cultural differences appear which have a pronounced effect on the rhythms of daily life, on the basile or quiet of the streets, and on the security or violence in public spaces. In the long run, they are expressed in morphological arrangements.

PAUL CLAVAL, 1984, p. 33.

Jp until now, we have mainly examined cities in the Jinted States and Canada. These are the cities with which we are most familiar and that best illustrate many of the processes and features of urban geography. North American cities also afford a model of urban development less fettered by fustory, with development going back 450 years at most and in many cases only a few decades. Yet this model also represents a limited typology. What French geographer Paul Claval describes as the "morphological arrangements," or the form of North American cities, is shaped by a particular set of cultural practices and historical traditions. If we venture beyond North America, we find cities that have been influenced by separate sets of factors.

In this section, we want to look beyond the North American city and introduce a more global perspective into our study of cities. In this chapter, we examine cities in the developed world, focusing primarily on cities in capitalist Western Europe, post-Communist Eastern Europe, and Japan. Unfortunately, this does not include all developed cities, we are omitting cities in Australia, New Zealand, and East Asia. Also, because of the constraints of space, we must skip lightly over places that are individually distinct. Feel free to consult the recommended

readings in the back of this chapter if you wish to explore cities in greater detail.

WESTERN EUROPEAN CITIES

In Chapter 2 we examined the evolution of urban patterms and structure up to and including the Industrial Revolution. Western European ciaes—those cities now found in the member countries of the European Union plus Switzerland and Norway-Ite within a region that was the first to fully urbanize and continues to be one of the most urbanized places in the world. A note: we use the terms Western Europe and Eastern Europe as a matter of convenience, stemming largely from developments since World War II. This division is artificial and considers as "Eastern European" several cities like Prague and Budapest that were capitals of great central European kingdoms and empires. We preserve this categorization, however, because of the powerful role played by Communist political economies in shaping these cities in the latter half of the twentieth century.

It could be argued that, taken as a group, Western European cities are some of the most pleasing cities in the world. They are prosperous and have fewer problems of poverty, stame, and ethnic conflict

than other cities. They are also a fascinating blend of ancient, medieval, and early modern history accompanied by bold new building designs and planning innovations. Where else but in France, for example, would the government emphasize the need for each new post office to harmonize with its neighborhood while also making an architectural statement! In contrast to many American centers, Western European cities continue to enjoy vibrant and walkable neighborhoods that are relatively safe. Many also preserve a distinctive mux of stores, with plenty of small independent businesses, open-air markets, and architecturnly arresting plazas. It is no surprise then, that a major part of European tourism is based on the simple pleasure of experiencing European cities. Venice, Pans, London, Florence, Innshnick, and many others derive a large share of their income from their physical beauty and arbane appeal.

At the same time, it is important to see West em European cities as more than an assortment of museums or as some kind of Disneyhed "Main Street." They are living communities beset by the kinds of issues and problems that affect all cities, economic transitions, urban decay, an influx of foreigners, decentralization, increased congestion, and pollution, to name just a few Many of the issues we discussed in the previous chapters can be readily applied to Western European cities, but with a different twist.

Urbanization and the European City System Urbanization refers to the proportion of the population that lives in cities. We say that a country is urbanized when more than half of its population lives in urban areas. The first country in the world to become urbanized was the United Kingdom, which had become a mostly urban society by 1850. The United Kingdom was followed by a few inher European countries, which are listed in Table 13.1. By 1910 a majority of the population in Italy, Belgium, and the Netherlands fived in cities, and Germany was on the verge of becoming mostly urban population, although the United States was close. In Italy, urbanization was concentrated in the northern part of the

Table 13.1 Percentage Population Living in Cities, c. 1910

Country	Percent	
July	62.4	
Belgium	56.6	
Netherianas	53.0	
Gérmany	48 8	
Spain	42.0	
France	38.5	
Switzerland	36.6	
Denmark	35.9	
Hungary	3(,()	
Austria	27.1	
Sweden	22.6	
Romania	16.0	
Portugal	15.6	

Sugreet Pounds, Norman, 490

country—with its long history of urban handlerafts (see Chapter 2)—and also in Naples, which was the capital of a large kingdom and long reigned as one of the five largest cities in Europe.

As the percentage of people living in European cities increased, the size of these cities also increased. In 1700, after European countries had moved into the forefront of overseas colonization and had nearly completed a long transition toward a capitalist economy London and Paris both had more than a half million people, which piaced them among the world's 10 most populous cities, By 800 Europe had 3 of the world's 10 most populous cities, and London contained nearly 1 million people. By 1900 London was the largest city in the world, and Paris, Berlin, Vienna, Manchester, and the very westward-tooking city of St. Petersburg were also among the 10 most populous (Figure 13 I). And the cities continued to grow. By 1925 Europe had about 11 cities with more than I million people (4 of these in Britain), out of a total of about 31 cities worldwide with 1 million residents.

Why was Europe the first continent to urbanize, and why did it develop so many large cities? Two major reasons stand out. First, the European head start restated from early industrialization. The manufacture of textues, steel, and chemicals in midlands.

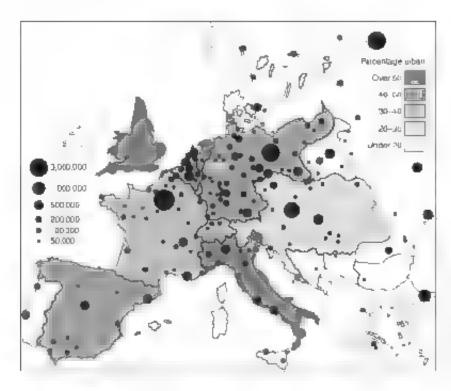


Figure 13.1 Cities in Europe on the eve of World War I. At this point in history. Northwestern Europe was crearly the center of the global economy, was the most arbanized and contained he world's largest cities. Source Authors

Britain in the coalfields of Belgium and France, and in the Rahr and Rhine valleys of Germany encouraged rura, people to move into urban areas to work in factories. This could not have happened before the mneteenth century, when industrialization created a new economy. Second, European cities grew because of imperialism. Many of the larges, cities on the continent were capitals of vast colonial empires In 1750, for example, Spain, Portugal, Britain, and France laid claim to almost all of North and South America. The bounty that arrived from these territories, plus the overhead required to administer the colonies, caused impenal capitals to swell By 1900. most of the Western Hemisphere was independent, but the British, French, Dutch, Belgians, Germans, Danish and Portuguese still controlled about 35 percent of the entire world's surface outside of Europe. specifically in Africa and Asia. Within Europe were situated the large land empires of Austria Hungary and Russia. Such holdings required large administrative apparatuses, and for this reason many European cities grew to tremendous size

Today, Europe is mostly urbanized, but there are some clear differences among countries. Those countries in the vanguard of the Industrial Revolution, like Britain, Germany, Belgium, and France, are strongly arbanized. Other countries are more intermediate Among these are Portugal, Finland, and Ireland, with long-standing rural traditions as well as many formerly Communist Eastern European countries. At the low end are those countries which have begun to develop, such as many of the Balkan countries of Serbia, Croatia, and Bosnia Herzegovina. Although urbanization rates have leveled off in much of Europe, everall there is a continued inflax of people-many now from overseas-into the urban regions. At the same time, the associated problems of congestion, crime, poverty, and housing capacity have become more acute. In addition, cities are increasing in area, as nearby rural land is convened. to urban uses. As is true of North America, suburbanization has caused the population of large cities within their official boundanes to decline while the population of metropolitan areas has gone up.

Although there are now more large crues in Europe than there were 50 or 100 years ago, European critics have lost their **demographic** position among the critics of the world. In contrast to critics in the less developed world, none of the large European metropolisan areas is growing ripidly. As recently as 1950, 5 of the 25 largest "urban agglomerations" in the world were located in Western Europe, and an additional two were in the Soviet Union. In contrast by 2010 only London and Moscow qualified among the largest urban agglomerations.

Western European crites continue to maintain their economic and positical position, however. Western European crites continue to rank highly on measures of economic and political significance, This is evidenced by the significant number of global crites—crites at the nexus of financial, political, and industrial power—that are located in Europe. (We discuss the notion of world or global crites in Chapter 4.) New York, Tokyo, and London are considered to be in the first her of such world crites. In Europe, Paris, Berlin, Rome, Milan, Brussels. Amsterdam, Frankfurt, Zunch, Vienna, and Geneva clearly are world centers for a variety of reasons.

Characteristic Features of European Cities

Because European cities differ with regard to size, historical legacy, available building materials, goverament, role of planning, and recent economic frends, they are difficult to characterize. Certainly, we need to consider political ideological systems, which is why Eastern European cities are normally discussed separately from Western European cities. We might also contrast aspects of cities in the Mediterranean lands of Italy and Spain, which were strongly influenced by the Renaissance and the Cathouc Church, with the more subdued middle and northern European cities. The great mantime trading cities-Venice, Genoa, and Amsterdam in particular-are far different in character from cities like Vienna or Pans, which once administered empires. Certainly industrial cities like Manchester, England and Dursberg, Germany, share many elements that differentiate them from cities that came of age during the Medieval period, like Bruges, Belgium. Europe is an extraordinarily diverse continent, with disparate histories, geographies, and urban legacies.

Internal variations notwithstanding, it is stipossible to point to a number of aspects of Western Earnpean eities that reader them distract from other cities in the world. Of greatest importance is that they exist within an economic environment of plenty. The people in Western Europe are not only the most affluent in the world, but they are the most highly taxed. Consider the proportion of the gross domestic product spent by the public sector in the United States, roughly one-third goes toward public expenditures, in Western Europe it is closer to half. As a result, public coffers have more cash to spend on public projects. There are also differences in the allocation of public spending. In the United States, much government money goes to defense and highway projects. In contrast, European governments spend less in these areas and more on urban development. mass transit, and beautification.

Density and Compartness: European cities are fairly compact. In the past, most cities were eagur died by a wall. If the population grew, as it did when cities were economically or positically successful, the extra people were trainined inside these fartifications, forcing more intense usage of land. Finally, suburbs (or faubourgs) emerged outside the city walls, but these remained close to the walled city proper Sometimes, walls were based on overly optimistic expectations of growth, as was the case with Siena, Italy, where city leaders constructed a wall that encompassed far more territory than the city ever needed.

Transportation posed another constraint. The reliance of all but the rich on their own two feet for transportation meant that cities could not spread out too much. They were walking cities. People needed to travel, and goods had to be transported by wheeled hand carts from one place to another in a reasonable period of time, Cities could not grow beyond a couple of rides in diameter, and most were smaller than that. Existing building stock from this preindustrial period ensures that the historical core of European

cities is densely populated. There are a few such cities in the United States—Boston and Charlestown come to mind—but these are rare. Except for some planned new towns, nearly all European cities were established as walking cities.

Since the early nineteenth century, European cities have grown tremendously in area. Streetcars, trains, trofteys, and subways all appeared in the late 1800s and into the 1900s. Automobile ownership also became much more common as European societies became more affluent. Today, most households own a cur, and excellent mass transportation systems can be found throughout the region. Nevertheless, European cities (and their surrounding urbanized areas) continue to exhibit much higher densities than American cities, as illustrated in Table 13.2. In the United States, only a few urban areas have

Table 13.2 Urban Residential Density per Square Mile (for entire urbanized area)

		Den as per	
City	Country	Square Mite	
Bucharest	Romania	17,600	
Turana	Albania	17,000	
Athens	Greece	(5,600	
Sofa	Bulgaria	14,800	
Chisiolia	Moldova	13,800	
Belgrade	Serbia	12,200	
Prague	Czech Republic	11,500	
Cardsff	United Kingdom	11,200	
Ljubljana	Slovenia	10,700	
Paris	France	9,900	
Stockholm	Sweden	9,700	
Bratislava	Slovakia	8,700	
Warsaw	Poland	8,200	
Toronto	Canada	7,000	
Amsterdam	Nethermods	6.600	
Talma	Estoata	5,700	
Budapest	Hungary	5,000	
New York	United States	4,600	
Marseslle	France	3,400	
Scattle	Unuted States	3,100	
Atlanta	United States	2,645	

Source: http://www.demographia.com/db-worldsa.pdf Note: Data is for ground 2010 densities in excess of 4,000 people per square mile in fact, in many of these cases the central city has densities under 4,000 per square mile with the suburbs at an even lower density. Typical are cities like Atlanta where much of the land, even within the city limits, is given over to relatively low density detached, single-family bousing. In European urban areas—including suburbs—densities exceed 7,000 people per square mile within the central city proper. This tendency toward greater densities also applies to suburban areas. European suburbs, which contain many high-rise apartment complexes, have greater densities than U.S. suburbs, which are comprised primarily of single-family houses.

Reasons for this high urban density have to do primarily with urban compactness, a measure of concentration in the city. It would be wrong to assume that urban compactness is a direct consequence of the overall density, urban and rural, of a country. Although many European countries are more heavily populated per square mule than the United States, several have population densities that are equal to or lower than the United States, yet they still have higher urban densities and urban compactness. Moreover, some countries with a high national density, like England, have lower urban compactness than countries with a lower national density, like linly.

In Europe, three basic factors contribute to compactness. First, many city dwellers cannot spread out as far as American urbanites. One reason for thus its different access costs. The costs of private transportation are much higher in Europe than in the United States. In Europe, two-car families are still in the minority. Gasoline prices are exceptionally high when compared to the United States (Table 133). Moreover, European countries are less inclined to build a lot of new roads or to expand the carrying capacity of existing roads. Costs and congestion make a long commute less practical. In many cities, the whine of the gas-efficient, nimble, but madly annoying moped represents one solution to these problems. Another solution is the widespread use of public transportation. Most European urbanites

Table 13.3 Average Gas Prices, per Galion, 2012

Oanon, 2012			
Country	Price \$10.12		
Norwny			
Netherlands	\$8.26		
Deumark	\$8.20		
Italy	\$8.15		
Sweden	\$8.14		
Greece	\$7.92		
United Kinguom	\$7.87		
France	\$7.79		
Belgium	\$7.77		
Germany	\$7.74		
Portugal	\$7.72		
Switzerland	\$7.66		
Finland	\$7.59		
Ireland	57.34		
Slovakur	\$6.93		
Hungary	\$6.79		
Malta	\$6.60		
Slovensa	\$6.57		
Austria	\$6.49		
Spain	\$6.47		
Czech Repubue	\$6.46		
Lucanhourg	\$6.38		
Lithiaala	\$6.32		
Poland	\$6.15		
Вь дата	\$6.12		
Latyra	\$6.80		
Liston, n	55.80		
Romania	55.71		
Canaca	\$5.46		
Russia	53.75		
United States	\$3.75		

Source Blanciberg Gas Prices — p /www.blcomberg a.on/slidesapw/30.1088 3/highest cheapest gas prices by country.html

enjoy mass transportation that is far more comprehensive and generally cheaper than in the United States, because of greater government subsidies (Table 13.4) At the same time, note that the majority of European urbanites ublize ears, and the proportion is growing

The second factor is the higher costs of home ownership and home financing. Housing prices

Table 13.4 Car and Transit Usage

	Auto Commune %	Transit Commute %
Demnark.	55	[3
Germany	68	F.J.
Estoria	40	30
Spain	56	18
Latvia	40	30
Netherlands	60	(10)
Purtugal	46	20
Finand	67	1.1
Sweden	62	14
United States	86	5

Source: Urban Audit. http://www.urbanaudit.org/DataAccessed.psps

US Data 2010; Portuga, 2005, all others 2004

are almost always higher in Europe because land prices are higher as a result of its greater searcity and because European builders tend to use sturdier materials. The cost of even a small house on its own lot is generally within the means of only the upper middle class. A house on a lot of half an acre to an acre, so common in North America, is unaffordable for all but the economic elite Just as important, the cost of financing a house is higher because most Europeans do not enjoy the 30-year, tax-deunctible, amortized mortgage available to Americans, Mortgages are not subsidized by the government, and most mortgage periods are brief. If houses are not inherited or paid for outright, they can be hard to finance. For example, a study of Madnd from the late. 1970s showed that an average deposit of 46 percent of the purchase price of a house was required, with the rest to be paid off in 5-10 years.

Not surprisingly, the higher costs of home ownership and financing have led to lower rates of homeownership in Europe. In the United States, approximately 65 percent of all households own their own home, a figure that has remained fatrly constant during the last several decades. In contrast, European rates of owner occupancy are far lower For example, in 1970 all Western European countries except for Finland had owner occupancy rates that were lower than 33 percent. In several cities,

including Vienna, Geneva, and Amsterdam, only 1 out of 20 households owned their own house or flat-Of course, most Eastern European cities allowed no home ownership at all before 1989. Because Europeans are less likely to own their own homes, they are more likely to rent apartments within the inner city, which leads to greater compactness. (We Jiscuss apartments later in the chapter.)

Note that places with easier housing financing, tke Botam and Belgium, empty higher owneroccupation rates. For instance, the Belgian government has provided housing grants to allow families to buy or build their own house. As a result, Brussels is fairly suburbarized with many single family houses. although it is still more compact than cities in the United States

The third major factor is that planning is far more stringent across European cities, European governments employ a variety of growth control mechanisms that are intended to contain urban populations within existing built-up areas and that provide for carefully defined outlets for growth beyond city anes (Box 13.1). For example, many cities demarcate explicit boundaries beyond which city-type growth is not allowed to take place. The clear separation between urban and rural uses is especially apparent in densely populated countries ke the Netherlands Here, policy makers have sought to concentrate urban growth in existing centers or in a selected number of "growth towns."

Consequently, cities end abruptly and farm fields begin not too far from the central business districts Great Britain has developed greenbelts around its cities, where soburban land uses are restricted. It has also established about 30 new towns (discussed in Chapter 12) that together contain about 4 million people. These measures have been successful to a certain extent, although the population has sometimes eapfrogged beyond the greenbeits. France has also invested in new towns, which were expected to help relocate some economic activity away from Paris These types of restrictive urban land-use planning are iess common in the Mediterranean countries, many of which do not have a strong national planning strategy. Here, the influence of other factors, especially

a tradition of apartment living, promotes a compact urban structure in large and small communities nlike

Historical Legacy Many European cities combine different historical periods, from antiquity to the present day. It is not unusual to see a twelfth-century. church tucked beside a Roman theater next to 500-year-old apartment bundings. Such features fascinate because they are still well integrated into the city's contemporary life. Roman amphitheaters are used for rock concerts and bacycle races, while many people still live and work in centuries-old buildings, ase medieval streets, and peer over an urban skyline. that seems little altered from an earlier time. Of course, this bracless quality as an optical illusion. Beyond the architecture, European cities are in the forefront of change, Certainly, past governments have initiated large urban redevelopments that often caused the loss of older buildings. Nevertheless, part of the way to which many European cities define themselves today is through their embrace of their heritage. The large-scale clearance of older neighborhoods that so typifies American urban development is anathema in much of Europe. Preservation is a more common desire than renewal, as the newerdemands of society are blended into the older urbanfabric. One geographer spoke of an "attitude of anti-progress and anti-innovation" (Holzner, 1970, p. 317). It would be more accurate to say that the attitude is one of great pride in the existing composition of the city and a desire to retain these historical features. The demolition of an historic structure brings about a storm of protest.

The epicenter of all European cities lies in the oldest section of the city. This is termed the historical core, and it is the portion of the city within the ancient or medieval walls (Figure 13.2). Most tourists spend all of their time within this section. What distinguishes the European core is that it still functions as the nerve center of the contemporary city. Here one finds the administrative functions of the city, which is very significant in societies where public employment looms so large. Here are financial functions like major banks and brokerage houses. Also, the most

BOX 13.1 STOCKHOLM'S URBAN PLANNING.

Stockholm, Sweden, is often held up as a model of what public planning can accomplish, given public support and a bit of foresight. Stockholm is probably the best example of coordinated urban planning that has created suburbs with out sprawl and has allowed rail transportation to flourish. in a wealthy society in which most everybody has access. to cars.

After World War II, Stockholm began a vigorous effort to plan and direct future growth. At the tirac it was growing at a rate of about 20,000 people per year. Stockholm was able to renew its central business district, which by the 1930s had fallen into disrepair. The city was developed along an inderly density gradient. I built a comprehensive, workable subway and rail transit system that is still the transportation of choice for many people. It also managed an orderly expansion of soborbs. Each suborb has access. via subway, to the central business district and serves as its own tinit, with shopping centers, parks, and cultural facilthes right next to the subway stution (Figure B131). At he same time, these natroad suburbs are not self-contained. with regard to employment; rather, a great number of work. ers commute in and out. Strickholm has also succeeded in keeping housing prices and rents affordable

The mechanisms that made this planned growth so successful are complex, but three stand out. First, in 1904 Stockho m's assembly bought large areas outside the city,

important retail functions continue to be found in the core. In this respect, European cores continue to command significant central-place functions lost to many American central business districts. To be sure, there are stores and shopping plazas on the outskirts, but the downtown still retains its position as a place to purchase everyday goods and special items. A study of retail concentration in the 1970s illustrates this point. Long after American retail had suburbanized, cities like Salzburg, Innsbruck, and Klagenfurt in Austria still had between 50 and 70 percent of their retail functions within the city center, and well over 90 percent of their financial functions. Even large cities like Vienna, whose centers contained a lower percentage of all metropolitan functions, still retained most of the top-level functions in the center

holding them until they would be needed for expansion. The assembly also extended the political limits of the city. to these newly purchased areas. Today there is a tot less amexation. However, the city has the power of condemnation, which means that if the government needs land, it can usually acquire it for a fair pince. In addition, Sweden. established a series of nonprofit housing companies that were entrusted with the responsibility of creating moderately priced housing on this government-purchased land. Finally, since 1971 a metropolitan government for greater Stockholm has been in place that is responsible for mass trausat, health, and planning and has its own tax base

These measures have created a city that is the envy of the world but that still allows for a fair degree of private ownership and suburban living. Of course, there are biomishes in this paradise. The Swedes put up with a higher level of taxation than just about any other country in the warid--fully 55 percent of their gross domestic product goes to public administration and public works. Swethshhomeowners must also accept the essential blanchess and institutional feel of much of the available residential space. In reaction to these problems, the commitment to regionus planning has worn down in the past 70 years. Beyond the line of planned rail suburbs there now lies a new frontier of automobile-priented strip corridors and residential develprincitle.

Another point of distinction is that many penpie continue to live to the historical core, often on upper floors above the stores and restaurants. This pattern has long typified the European city and is starkly different from the American case, even when downtowns in the U.S. reigned supreme. In European communities, location in the core area is quite prestigious, and the rent and housing values are very high. Thus, core location is associated with affluence, and the concentration of affluent people further enhances the retail mix in the downtown. Fairly recent data indicate that the population living in the core area is actually increasing in many cities, aftesting to the core's attractiveness. This is a reversal of trends from the 1960s and 1970s, when core areas declined with growing suburbanization. This appear

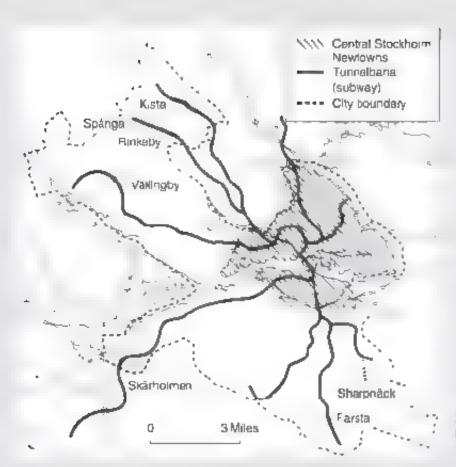


Figure B13.. The locations of Stockholm's ran suburbs Source: Cervero. Robert, 1995

does not extend to districts close by, often those developed during the nineteenth century. Such areas, such as one might find near the train station, are often among the misst dilap dated segments of the European city, analogous in some ways to the American zone of transition. In many cities, these have become zones for annugrant communities.

The historical core is normally oriented around plazas or squares, legacies of the medieval or baroque eras. These spaces traditionally were used for open air markets or they surrounded a church later they were also used to set off a monament. For example, the principal central space in Siena, Italy, lay where three separate communities merged; the open space between them became the Campo, or communal space, for the town as a whole. Whatever

their genesis, urban plazas retain a major orienting function in the modern European city, they are likely to be surrounded by cafes, restaurants, and shops. In the most heavily visited cities, these open spaces constitute a prime-value intersection. The Campo in Siena is lined with massive open-air restaurants and cafes with names like Ristorante al Mangia, catering to the lourist crows.

An additional attribute of the historical core is the often labyrinthine street pattern, at least among a large number of cities. This reflects the development of cities through the process of accretion, where segments were added at different stages of time, or through synaecism, a process in which separate communities grew and eventually merged. This organic pattern of urban development predominated,

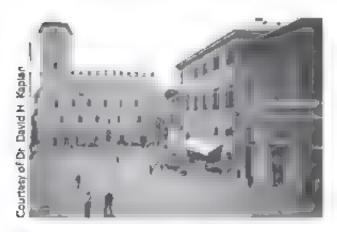


Figure 13.2 Most European cities, like Thdi, Italy, are organized around a historical core. This central location is what gives European cities their character and continues to be valued by tourists and residents alike.

particularly in cities without a dominant master plan. City form was more likely to be dictated by the contours of topography, be it ridges along a hill, alongside a river bank, or surrounding a natural harbor (Figure 13.3). Even more commonplace are narrow streets. A 1965 study of West German cities indicated that 77 percent of all streets were less than 7.5 m (or about 25 ft.) wide, barely adequate for two-way traffic. By contrast, only 16 percent of U.S. streets at this time were as narrow. Of course, these figures mask enormous variations within the city itself. Street width and parking outside the core area tend to be more substantial, but even newly built roads are comparatively narrow.

As centralized authority and particular design ideals grow more prominent in the seventeenth and eighteenth centuries, existing cities were partially reconfigured with planned extensions, often with regular streets, next to the existing organic layout. For example, in the early eighteenth century, a part of Trieste, Italy, abutting the old medieval city was platted in regular lots, wide streets were laid out, and a grand canal was built to allow large ships to dock right next to newly constructed warehouses. Sometimes portions of the old structure were demolished and replaced by a brand-new layout. In Chapter 12, we

discussed the process of Haussmannization, where much of the older housing in Paris was demolished in order to create a new, more regular, street network lined with imposing apartment buildings, stores, and offices.

The center of the European city is normally marked by a fairly low skyline that is still dominated by churches and medieval civic monuments. For example, the tallest structures in central Bologna are two towers built in the twelfth century, with the tallest reaching only 322 feet. These remain the primary onenting feature for that city. Other Italian cities feature a prominent duomo or cathedral. In Paris, the Exfel Tower orients the eyescape of the city, but the other buildings are relatively low, prohibited from exceeding a height of 65 feet. Skyscrapers are being built, and they are becoming more common among corporate headquarters and some new apartment complexes. However, this construction is taking place outside the core area (Box. 13.2). The result is a profile that resembles a "shallow bowl with a raised rim" (Lichtenberger, 1976, p. 95). The relative scarcity of skyscrapers in Europe means that although Western Europe together contains great concentrations of wealth, only 2 of the 100 tallest buildings in the world are in Europe: the 981 foot Commerzbank Tower and the 843 foot Messeturm Building in Frankfurt, Germany, which are ranked 91st and 95th in the world. Frankfurt too is interesting as an example of a European city that has adopted a North American style skyline, replacing many of its older buildings with new office spaces in the downtown. We do not know yet whether this remains an exception or heralds a new trend.

A final fustorical element that impacts the morphology and look of many European cities is the city walls. As we saw in Chapter 2, most cities developed a system of walls and other fortifications in order to protect the cities from marauding soldiers, but also to serve as a clear demarcation between very separate urban and rural worlds. Over the course of the medieval and Renaissance periods, these walls continued to be expanded in order to accommodate larger population growth. They also became more

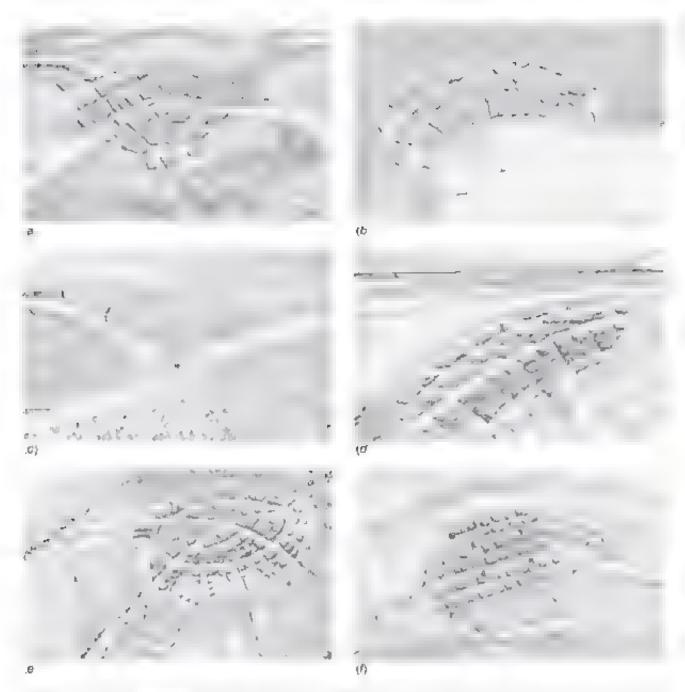


Figure 13.3 The physical terrain determines the shape of caties and in many cases its function. (a) a rivenue settlement, by a natural harbor (c) a detensive site (d) along a mean mage, c, atop a hall, and f, along a slope. Some e. Source. Spiro, 1991.

elaborate as a *glat is*—an undeveloped area outside the ways—was built so as to give the city is defenders an uninterrupted line of fire. With the development of strong tern ornal states and improved artifery techniques, these walls became uscless and were gradually demolished. Most of this occurred during

BOX 13.2 POSTWAR URBAN DEVELOPMENTS: ROME'S EUR CENTER AND PARIS'S LA DÉFENSE

The process of urban decentralization has altered the morphology of cities throughout the developed world. At the same time that many families and businesses have relocated to the suburbit, new nodes of economic activity have been created beyond the central business distinct. Many postwar European countries encouraged this trend, fearing too much concentration in the inner city. They fostered the creation of new towns, satellite cities, and growth poles. Their goals were to relieve some of the pressures within the inner city and to promote economic development. Relocating economic activity outside the central city also enabled the construction of new modern districts with little disruption to the historical core.

The EUR district, located 5 miles outside Rosne, exemplifies these new development nodes. The EUR district was first envisioned by Mussohni as a pagan to Fascist grandeus. and building in the district stopped with his overthrow in 1943. Since the 1960s the district has become a center for government ministries, major conventions and conferences, and business headquarters. Since the 1970s there has also been an expansion of office space, both from new construction and from the conversion of residential space. Housing for the affluent is situated just to the south of these. administrative and commercial zones. The EUR district is among the most planned areas in the Roman metropolitan area, maintaining a scrupulous balance between buildings. and green space. It is also among the most sterile, with little of the evening activity so beloved by Italians. Wide streets, office towers, a clear separation of functions-all of these hallmarks of the North American edge city have also gained a footbold in European cities (Figure B13.2).

Another example is La Défense in Paris, situated about 6 km northwest of the downtown, just past the Bois de Boniogne. The district of La Défense was established first

the nineteenth century, when the walls of most of the major. European centers were removed (although the walls around Paris remained until the 1920s). The effect of this demolition was to open up an enormous area of land just outside the urban core, and many mneteenth-century redevelopment schemes were able to take advantage of this new space. Probably the most famous example is the Ringstrasse.

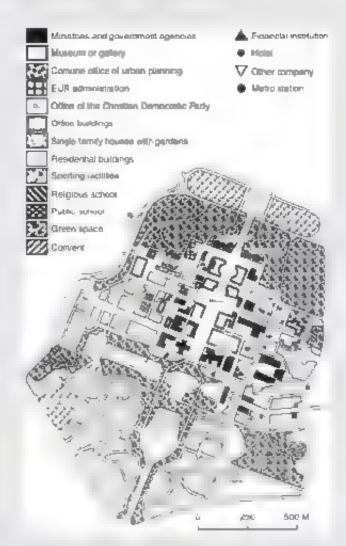


Figure B13.2 Map of the FUR center on the outskirts of Rome. Source: Agnew, John. 1995

in Vienna, where the wall and glacis areas were replaced with a circular road that included the city's most important public buildings and housing for the elite (Figure 13.4).

Housing and Social Geography Compactness and the historical legacy of European cities play major roles in the distribution of housing markets in the 1950s as a state development agency, but it took physical form in the 1960s as a venue for substantial office development. The peripheral location of La Défense, combined with its easy access to Pans along rail lines, allowed for the creation of a state-sponsored, but mossly privately owned, skyscraper district. Today, the district is a clear nucleus of employment providing some 100,000 jobs to the Pansian agglomeration.

Despite its beginnings as a state development project. La Défense is mostly in private hands. Many French and foreign companies house their headquarters there, making it primarily an office district. In fact, during the early 1980s La Défense captured more than half of all new office space constructed in the entire metropol tan area. It has also become a major shopping mecca, and there have been efforts to meorparate some residential, and into the district.

In appearance, La Défense looks somewhat like the downtown of a modern North American city. In fact, it has been termed the "Parisian Manhattan," with its wide streets, glass-box architecture, and skyserapers, which are not allowed within Paris itself (Figure B133)

The district does contain a couple of notable pieces of public architecture: the 108-m-tall Grand Arche, with its holiow center and the CNIT exhibit on center which now contains a shopping center and a hote.



Figure B13.3 Paris's modernistic quarter, named to De case, contains the Grande Arche.

and the resulting social geography. Over the course of centuries, the building materials used within most European cities have proved more durable than the wooden structures favored in the United States Housing is expected to last for several centuries. The use of stone and brick has even been mandated by some manicipal governments. For example, nearly 200 years ago, the government of Helsinki required

the use of these construction materials within the central districts. Using these materials causes the costs of building considerably, but it also ensures that housing quality does not deteriorate nearly as rapidly. As a result, older housing built before the twentieth century is considered quite desirable, in fact, there may even be a prejudice against newer housing. As with the United States, older structures

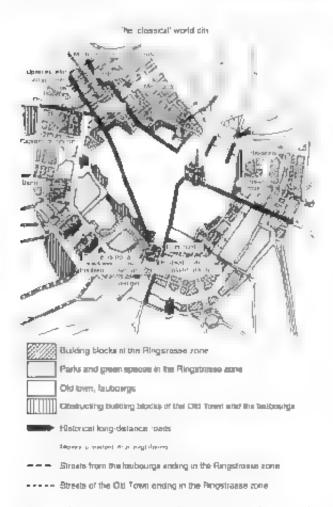


Figure 13.4 The removal of Vienna's wall was followed by the construction of a prominent ring road the Ringstrasse. This diagram indicates the various urban functions of the Ringstrasse zone, including elegant buildings and parks. Source: Lichtenberger, Elisabeth. 1993

are in the center of the city, while newer structures are located toward the periphery. Unlike the United States, however, where most wealthy people choose newer, more spacious housing, many Europeans prefer more centrally located, older housing.

Two other features of European cities are the relatively low rates of owner occupancy (which we discussed earlier) and the much greater tendency toward apartment trying. The grand redevelopment schemes in Europe—such as the Haussmannization of Paris or the development of Vienna's Ringstrasse—established grand and luxurious

apartment buildings. Each building offered up a microcosm of society, as the most prosperous families occupied spacious second-floor apartments with a panoramic view of the boulevard, while poorer families were pushed and apper-story flats with a courtyard view. Other cities in Continental Europe also exhibit very high rates of apartment living. Overail, in cities with more than 100,000 people, about 80 percent of households live in apartments, in cities with more than 500,000 people, more than 90 percent occupy apartments.

Although all Europeans rely much more on apartments than do Americans-where the bon's share of housing is single family detached units-there is considerable variation between countries. In Italy, it is not unusual to find apartment buildings in the smallest towns (Figure 13.5) In Great Braun, by contrast, single-family houses are quite common, although at rates still below those of the United States. and Canada. Furthermore, mobility is considerably lower in Europe than in the United States. In the United States roughly one out of every nine peopie moves every year, the majority of these moves being intra-strhan. This in itself is a decline from a decade ago. Still, with the exception of Finland and Denmark, mobility in European countries is lower, sometimes less than a third of that rate (Figure 13.6). The reasons behind this differential are complex. The higher costs and more difficult financing of housing may have some bearing, but lower mobility applies

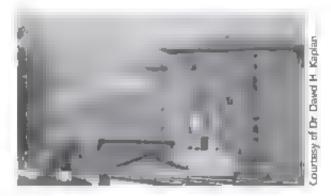


Figure 13.5 Apartment Irving is more common in Europe than in North America. This is especially evident in small-town Italy, such as in this suburb of Rome, where most residents inhabit apartments.

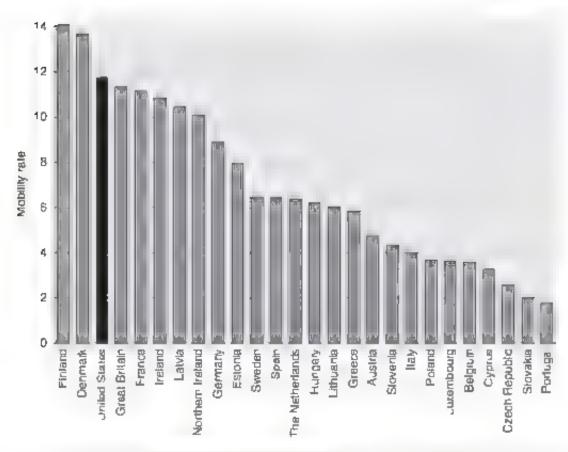


Figure 13.6 This chart demonstrates the much greater mobility among residents of the United States compared to most fluoropean countries. *Sounce* http://www.federaireserve.gov/pubs/feds/2011-201130/accessible_version.html#hg5

in rental housing as well. Lower mobility means that people in rental housing are more likely to maintain their housing and that urban neighborhoods in general are far more stable, with less filtering.

Especially when compared to the North American case, affluent Europeans are more likely to live and stay in the historical core, while many of the poor are found in the city's outskirts. Reinforcing this trend is a greater tradition of providing public housing. In most European contexts such housing extends over a far greater economic range than is true of the United States. Atthough it is occupied predominantly by low-income households, it very often includes lower-middle-class and even white-collar tenants. In Europe, much of this public housing is placed where land is available, near the city's edge Paris, for example, is ringed with a series of lower

status apartment complexes to the north and south of the city proper, in which are located many of the city's poor, as well as several immigrant populations. Rather than experiencing inner-city blight. Parts suffers from a perceived crise des bankeues, or ensist of the suburbs, in which suburban public housing is linked in the public mind with social deprivation and minority overrepresentation. Riots in 2005 left little doubt that the existing social and spatial arrangements had created suburban neighborhoods that were desperate and violent.

The social geography of European cities has been studied through techniques drawn from social area analysis and factorial ecology (see Chapter 7). Such studies indicated that, like North American cities, European cities are divided by class. Class registers as the principal organizing factor, explaining about

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one-third of the population distribution in cities. The next significant factors were indicators of density and household type. In European cities as in North America, variations still exist on the busis of household size. However, because mobility rates are lower, Europeans are less likely to move as they go through life's transitions, such as starting families. The main point of difference with North American findings was that ethnic segregation did not emerge as a major dimension of urban morphology. Most studies were done several decades ago, however. In the meantime, cultural diversity and ethnic segregation have become more prominent.

Figure 13.7 presents a schematic of a Western European city. Obviously, a single model of urban social geography cannot account for all of the differences among Western European cities. Nevertheless, this schematic illustrates some of the features we have discussed and it high ights differences with cities in North America. In this, we can see the continued attraction of the historical core, as well as many of the extensions developed in the nineteenth century, which often replaced the wall and glacis. Older

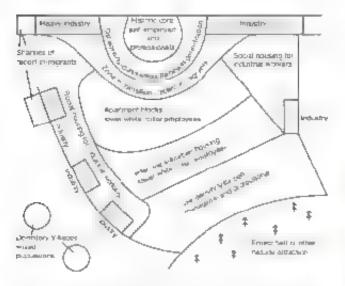


Figure 13.7 Schematic of a Western European city. The figure shows how Western European cities are oriented around a historic core, which also includes a large nomber of affluent people. Social bousing is found along the periphery, near industrial areas. Suburbantzation among some of the affluent is also evident. Source: Authors.

industrial zones stretch on one or both sides along the riverbanks or coast.

As with the American city, there is a zone of transition, based in areas where cheaper, pre-World War I housing was constructed. Here are found some immigrant neighborhoods, more transient populations, and working-class populations. Very often, this zone extends in an arc from the train station away from the historic core. A broad sector of twentieth-century privately owned or rented housing extends from the inner city toward a natural amenity (I ke a hill or forest). The edge of this zone contains suburbap-style housing for the middle class and affluent, but with far smaller lots than are common in North America. Other sectors often feature publie (or social) housing, containing a working-class population. The urban edge is usually marked by a timited-access highway and, in several cases, fast two- or four-lane highways lined with newer shopping and office complexes (Figure 13.8). In several cities, strict growth controls limit this type of retail. and commercial sprawl,

Aspects of Change

European cities have confronted several significant changes in the last century, changes that have altered their economic and social structure and that today leave a mark on the urban landscape. The most profound changes occurred as a result of World War II,

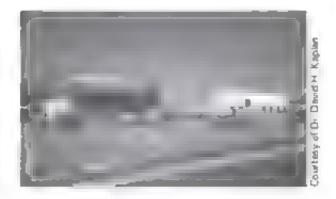


Figure 13.8 The outskarts of many European cities, like this picture taken outside of Udine, Italy, show that automobile-oriented strip shopping its also common in Europe

which physically devastated several cities. Rotterdam and Le Havre, for example, were almost entirely leveled; in Germany's Ruhr Valley, overhalf of the housing stock in Dortmund and Duisberg was destroyed in the aftermath, cities were given the opportunity to create themselves anew, though at a tragic loss to their older architecture. Wars continue to ravage the landscape to some parts of Europe, as we sadly witnessed in the former Yugos, avia.

There have also been other, more subtle changes that have transformed the European city. These trends might be categorized into changes in European cities' economic circumstances, changes in the cities' post cal circumstances, and changes in the cities' social and cultural composition.

Changing Economic Circumstances During the nuneteenth and early twentieth centuries, European cities were clearly affected by industria vation. A few places within England's Midlands and Germany's Ruhr Valley became cities as a result of the new industrial economy; many others witnessed tremendous growth in their overall size and complexity. Changes in industrial processes influenced urban development. Fordism, described in Chapter 6, encouraged concentration, both within particular regions and within clearly defined industrial belts of the city. The fast quarter of the century witnessed

a shift toward a post Fordist economy, marked by more flexible manufacturing processes, a more polarized social structure, and a greater autonomy of business from state intervention. This transition has also accompanied globalization

Such a shift changes the logic of spatial location. In recent years, many European cities have changed along the same lines as North American cities, albeit in a more modest fashion. The following discussion examines how economic changes have affected the nature and functions of European cities.

Although European extess as a whole continue to retain more of their office functions within a central district, several of these office functions have relocated in the urban periphery. This is true of back office functions, composed of the necessary clerical support for front office administrative functions, which are still overwhelmingly centralized. Clerical workers are being physically separated from the people who administer the companies. The region surrounding Zurich, for instance, has become transformed as steel and concrete towers have proliferated in particular regions. New railroad lines and a new freeway north of Zurich have preated a dense consider. of office buildings, many still under construction (Figure 13.9). Like a corporate office complex in the United States, each building is self-contained, and the area shuts down after working hours.



Figure 13.9 Office building construction in suburban Zarich

Post Fordism also entails flexible consumption and living spaces. The major beneficianes of the new economy are knowledge workers and other highly skilled professionals. Like their American counterparts, many choose to live outside the city, occupying territory that was previously rural. All hough this is manifested in familiar housing subdivisions, European exurbanites are also likely to occupy and refurbish centuries-old farmhouses or villas. For example, Keil and Ronnenberger (2000) described the neorural revival in suburban Frankfurt, where a typical sight in front of a remoduled fare (bouse is a four-whitel-drive jeep with a surfboard on the roof

Air traffic lies places together in an increasingly globalized world. With the increased prevalence of air travei, major European airports have einerged as cores of economic activity. At a larger scale, it becomes important for all major services and industries to be situated within an hour or two of a major international airport. Services that depend directly on proximity to the airport-warehoasing, coarier services, hospitality - require even greater proximity and cluster around armorts, where they are joined by other businesses, har can benefit from this location. This clustering thus results in the development of a new node of activity. This is particularly true of some of the largest international airports. Heathrow (London), Charles de Gaulle (Paris), Zaventum (Brussels), and Frankfurt's airport, which has become the largest single employer in the course urban region, providing nearly 80,000 jobs. An additional feature is the introduction of a high-speed rail network, linking existing national systems and creating new systems, Access to this network will become a key facilitator of urbangrowth, and those cities left behind will likely suffer.

Of course, the interconnection of economic activities across national lines has been an economic mainstay since the Middle Ages, when Genoese bankers set up offices in Flemish and Hanseatic communities. However, some observers suggest that these tendencies have now reached a critical mass where the very character of European cities is being transformed. On the street, the influence of globalization can be winessed in stores and fast-food restaurants. The large cities contain several McDonald's restaurants, for instance, Milan has six of these within a couple of blocks of its central square. This has led some critics to refer to the "McDonaldization" of the world. European chain stores like H&M are even more evident, as transactions occur freely within the European Union.

It is important to note that, although this homogenization seems a dramatic development to European eyes, compared to most American cities it is still quite restrained. Small independent businesses continue to play a big role in the retail sector. The latest (2011) information from the European Union shows that "microfirms" with one to nine employees make up 93 percent of all nonfinancial firms and that half of all jobs are in businesses with less than 50 employees.

Changes in the Political and Cultural Milieu Although European cities have long been regarded as centers of culture, they have not been considered conters of cultura, diversity. The dominant migration patterns in the nineteenth and early twent eth centuries. were from the countryside to the city and emigration to overseas destinations such as the United States and Canada. In the last 50 years, this situation has begun to change, Robert Dickinson's text, The West European City, published in 1962, had almost nothing to say about immigrants. By contrast, modern studies of European cities cannot avoid the subject. Immigration and cultural diversity have become controversiatopics, as can be seen in the emergence of right-wing, anti iminigrant political movements in nearly every European country.

Today's immigrants come mostly from less developed countries, often former colonies. Great Britain draws Jamaicans, Indians, and Pukrstams; Prance attracts Algerians and West Africans, Italy ares Ethiopians and Somalians; and the Netherlands brings in people from Indonesia and Surinam. Other times, migrants arrive to fill gaps in the labor force. The guest worker program in the former West Germany brought in a number of workers from Turkey, for example Initially, many of these workers came without families and rotation back to Turkey was encouraged. However, by the early 1970s labor migration programs in Germany and elsewhere had

been greatly liberalized, allowing for longer stays and family reunification. Short-term labor migrants. thus became true immigrants in every sense of the word, taising their children and grandchildren in their adopted countries. The increased presence of miningrants is charted in Table 13.5, which shows the immigrant percentages, by country, in Europe Although this is countrywide data, the vast majority of immigrant groups settle in cities. Over time, immigrants have settled in particular parts of the city. There is no district where a single ethnic group. comprises 95 percent or more of the population, as is true among African Americans in almost every large American city. At the same time, most amnority. populations are distributed unevenly throughout the urban landscape and often cluster in specific neighborhoods. In Paris, for example, North and West African populations are found along the northern outskirts of the city, some in public housing, but many more in private rentals. Conversely, the foreign and foreign born population in many German cities is more concentrated within the inner city

The Dutch case is somewhere in the mindle. Turks and Moroccans in both Amsterdam and Rotterdam are clustered in older turn-of the-century and some newer areas, mainly because they require the larger dwellings to accommodate larger families. They are not found in older nineteenth century inner-city districts, nor in the newest places on the outskirts. The Dutch case also characterizes much of the urban diversity within European rities, There is a concentration to be sure, but it does not exceed 20 percent of a neighborhood for any single group. Segregation levels are modest

A related aspect of some European cities is the presence of ethnic divisions and even rival nationalisms. These divisions are not related to immigration from less-developed countries. Rather, they occur where cities have become divided by ethnicity. For example, Bolzano, Italy, is divided between the South Tyrolean German-speaking population and the Italian-speaking population. Members of these two groups largely inhabit separate neighborhoods within the city, although they intermingle in various shopping and employment districts. Likewise

Table 13.5 Foreign Population in Western Europe as a Percentage of Total Population

			Total	Outside EU	
Country	1000	1908	2000	onne	Main Preparation Croups
Be-grun	9	8.7	91	29	Morocco, France, Netherlands, former Yugoslavia, Germany
Demistark	3.7	4 H	5 8	3.8	Iraq Somatia Gertnamy Turkey Noeway
Finand	0.5	1.6	59	. 7	Russin, Sweden, Estoria, Former Yagoslavia, Iraq
rance	6.3	NA.	5.8	3.8	Murocco, Algeria, Turkey Tunis a. United States. West Africa
Germany	8.4	8.9	8.8	5.7	Former Yugoslavla, Poland, Turkey, Italy, Rassia
are and	2.1	3.0	1.3	₹ .	United Kingdom, United States
Italy	1.4	2.2	6.5	4.6	Merocco, Albania, former Yugoslavia, Romania, China
a temboury	29.4	356	435	6.0	France Portugal Belgium Germany United States
Vethertanus	4.6	4 7	19	2	Morocci v. Turkey, Germany, United Kingua, p. Be gium
Norway	3.4	3.7	63	1.9	Former Yugosi ivin Sweden, Iraq Denmark Somann
Portaga		1.8	4 2	3.4	Brazil, Spain, Gianea Bissaa, Cape Verde, Angora
Spur n	0.7	1.8	123	7.4	Morocco, United Kingdom, Germany Portugal France
Sweden	5.0	5.6	59	3.2	Finland, Norway, Iraq, former Yagastavia, Denmark
Switzerland	16.3	19.0	7.7	8.3	Italy former Yugoslavia, Portugal Germany Spain
nited hingdon	3, 1	3.8	6.6	3.9	United States. Australia. South Africa. India. New Zealand
United States	9.4	11.7	129		

Source: http://www.Loccd.org/publications/ebook/810..31E.PDF

Brussels contains both Flenungs and Wallomans (French-speaking residents of southern Belgium) Segregation between these two populations in the city mirrors the political partition of Belgium as a whole Belfast in Northern treland has suffered from especially intense religious conflicts.

Finally the political function of many European cities is changing as Europe changes. Many of these cities achieved their greatest level of growth during the age of imperialism. Paris, London, Vienna, Rome, and Brussels styled themselves capitals of vast overseas and continental empires. Following World War II, these empires collapsed, and the former imperial powers became small national states. Since that time these states have joined into a series of associations—the European Common Market, the European Community, and now the European Union—that have promoted greater economic and political integration, including a common currency that debuted in January 999

The direct consequences of this increased integration are cicar for some cities. For example, Brussels has become the headquarters for most of the European Union's administrative offices, giving it promiaence as a diplomane center and as a headquarters for nongovernmental and intergovernmental organizations, Strasbourg, France—in a borderland that has changed hands with Germany several times—has become the headquarters for the European Purhament, the political arm of the European Union Other cities have also benefited from increased intergovernmental ties. Geneva, Vienna, Paris. London, and Luxembourg City, to name a few

Indirectly, the consequences of European integration may be even more profound for certain cities. A common European economy renders many aspects of a peculiarly national economy unnecessary. National borders and separate currencies no longer serve as economic barriers. Cities may be able to serve as central places for markets across national boundaries. Other cities might benefil simply because of their border locations. Increased integration also burts some cities that are located far away from major transportation corridors.

CITIES IN POST-COMMUNIST EASTERN EUROPE

Cities in Eastern Europe occupy a middle ground between the developed cities of Western Europe, North America, and Japan on the one hand and cities in developing societies on the other Many Eastern European cities were part of the grand urban traditions of Renaissance, Barrique, and Imperial Europe Budapest and Prague were two of the major centers of the Austrian Hapsburg Empire and could compete in sophistication and elegance with any European capstal Other cities, like Danzig (Gdansk) and Riga, flourished as key members of metheval Hanseauc trading league. At the same time, however, Eastern Europe generally lagged behind Western Europe in economic development and urbanization. Long after feudalism had ended in Western Europe, it was stilgoing strong in the east. By the turn of the twents eth century, a bage gap in wealth existed between industrialized northwest Europe and the backwaters of Eastern Europe. In addition, much of the urban development in the east was affected by war and imperialism. Wars between the expanding Ottoman Turkish Empire and the lands the Ottomans sought to conquer exacted a heavy toll on many of the towns and cities that stood in their path. When the Ottomans finally gained control of the Balkan Peninsula, this conquest dampened the growth of many smaller cities and towns. Austrian Hapsburg domination in east-central Europe also siphoged off many of the region is resources to benefit areas further west. In the German areas further north, economic conditions were a bit more advanced; many cities here began to industrialize after 1870. City growth followed. By World War L Poland and the eastern portion of Germany were close to 50 percent urbanized.

Any promise of orderly economic and urban development in Eastern Europe was disrupted by the world wars and the imposition of Communist ideal ogy. World War I began in the Balkans and involved a number of powers with territory in Eastern Europe Germany, Austria Hungary, Russia, and the Ottoman Empire By the war's end, the empires in the region had been eliminated, replaced by a system of weak

national states. World War II was far more destructive. Repeated bombings seduced many Eastern European cities to rubble, genocide lacerated the social fabric of the cities, and the boundary changes after the war found many people separated from places they had previously frequented. In the years immediately following World War II cities on both sides of the Iron Curtain had to contend with mass migrations of displaced people; perhaps as many as 31 million people had to change their residences

Countries under Soviet domination were compelled to adopt a Communist ideology that altered the progress of urbanization once again. To be fair, many of the new governments helped regenerate economic activity in devastated communities. Vestiges of the old feudal society were vanquished, industrial pro-Juction was significantly expanded, and urbanization levels quickly rebounded. The newly installed Communist governments were not interested in repeating capitalist models of urban development. Instead they imposed a particular type of arban development, very different from any attempted before.

Communist Urban Dovolopment

Unlike cities in Western Europe and North America, Eastern European cities were not permitted to develop according to market principles. Rather, their growth was directed by the government and was guided by a few simple tenets.

The first tenet was that, with a few exceptions, all land was owned by the state. Property rights as we know them simply did not exist because individual property was not sanctioned. The absence of a bid-rear market meant that the distribution of functions was by government decree Central business districts existed as a result of government activity and decisions, although it is important to note that many cities contained quite impressive central business districts, in which governments normally chose to locate their activities. Similarly, there was less of a density gradient Many cities were decentralized, with factories, shops, and residences located in equal numbers throughout the urban area. The egalitarian premise of socialist society meant that

few class divisions were allowed to exist, although the Communist exite generally fared quite well when resources were associated. This ideology was reflected in an urban landscape that was generally devoid of good" or "bad" neighborhoods. It also discouraged the construction of distinctive dwe.hings. Rather, most people lived in apartment blocks, essentially large-scale public housing.

A strong commitment was made to central planning at all levels. Cities were directed by five year economic plans. Governments attempted to arrange the economic size and specialization of each city within the urban hierarchy. Some cries were established as heavy producers, while others were earmarked as administrative centers of as transportation hubs. Governments also tried to influence the size of cines. For example, they controlled migration into and nut of each city. There was also a vision of an optimum city size. In tially planners wanted to restrict cities to a population of between 50,000 and 100,000. This "optimum" was revised upward until governments finally realized that it was impossible to enforce and the optimum was abandoned. Within the city, planners sought to create neighborhood units that would provide residents with all of their necessives—health care, education, shopping—while they also minimized the journey to work. These microdistricts were built, but in reality they did not offer the optimal range of services. Many simply became enormous apartment complexes housing thousands of people rather than integrated communities.

Finally, most Communist cities were perceived as centers of production rather than as centers of consumption. The idea was that these cities would spearhead economic modernization with new socialist factories. As a consequence, the industrial sector was overemphasized, while consumer services were marginalized. Stores and services atrophied from a lack of support and, at least in principle, the absence of private enterprise. A few Communist states, notably Yugoslavia and Hangary, relaxed some of the restrictions against private enterprise and were rewarded with a greater availability of goods.

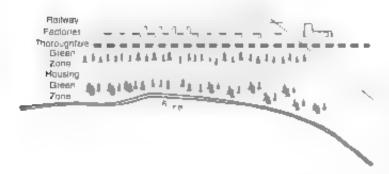


Figure 13.10 The Soviet city of Magnitogorsk demonstrates some of the principles of the Communist city. Functions are laid out in a linear patiern. Nearest the river was a long linear park, followed by a residential area, a green zone, a thoroughfare a factory zone, and the railway. Source: Bater James, 1984

Figure 13.10 shows the mode, of the idea. Communist city as embodied by the actual city of Magnitogorsk. The schematic emphasizes the Energity of the ideal city—parallel belts of housing (with services) and industry separated by a green zone. This arrangement produced a more even spread of industry and provided ample green space.

The ideal of a rational ordering of urban functions that would give everybody a healthful surrounding environment and min mixe the journey to work was only partly realized. The lack of a market for land often resulted in more confusion rather than less. In the end, workers tended to go all over the city, for shopping and working, rather than to just one specific area. Communist someties thus discovered what capitalist planners found over and over again: It is samply impossible to enforce a jobs/housing balance such that all people live where they work and work where they live. Many governments did make up for this in part through the heavy subsidization of mass transportation. In Moscow, for instance, it was possible to ride the extensive subway system for a few peanies. In addition, the governments found it difficult to provide housing for everybody who needed it ideally, every person was supposed to get housing directly from the state. In reality, housing was more flex.ble By the end of the socialist era, a majority of housing in Hungary, Poland, and Czechoslovakia was owner occupied, at higher percentages than those that prevailed in many Western European countries

Ideals of equality were also sidestepped, as crites became socially segregated. For example, a study of Hungary showed that in many cases the best-connected members of society, usually members of the Communist Party elite, were able to enjoy a better quality of housing at highly subsidized prices, while poorer, less influentia, families often paid more for lower-quality housing. Similarly, a study of Warsaw discovered that better educated people lived in new, well-equipped cooperative dwellings, whereas the poorly educated lived in old, badly equipped flats or sma, houses.

Post-Communist Development

Most of the social and economic principles we just discussed were cast aside as countries discarded their Communist governments in the late 1980s. Since that time Eastern Europe has implemented new political and economic systems. It is important to note just how varied the experiences of different East em European countries have been. Some countries, ..ke the former Yugoslav Republic of Slovenia, have done extraordinarily well. Slovenia has succeeded in throwing off the shackles of communism and centralized Yugoslav control. Slovems became an EU member in 2007 and by 2012 it enjoyed a per capital purchasing power painty of approximately \$28,000. not far below that of neighboring Italy and Austria and greater than Greece. The Czech Republic, Slovakta, Hangary and Poland are almost as prosperous. The cities in these places buzz with new development, and aithough many people are still underemployed, a greater share of the population has begun to enjoy the fruits of a consumer society (Box 13.3). At the other extreme is Albama, a country that has barely emerged from decades of totalitarian repression and that has yet to undergo a true industrial transition. In between are countries like Bulgaria, Romania, Croat.a. and most of the successor states of the Soviet Union. Despite these variations, we can identify a few

BOX 13.3 THE OLD AND NEW CITY OF PRAGUE

Of all of the Eastern European cibes to emerge from Soviet domination in the late 1980s, Prague in the Czech Republie is the most luminous (Figure B13.4). Much of Prague's success is a direct product of its past. Established in the moth century. Prague grew rapidly during the fourteenth century. The city developed a strong y cohesive central historical core, built along both banks of the Vitava River Later, Prague became one of the major centers of the Austrian Empire, after Vienna and Budapest, and was further developed with architecture dating from the Hapsburg era. Fortunately, Prague was spared during the world wars. In the post-Communist era, Prague has emerged as the primany city and capital of a fairly prosperous country and as a major tourist destination for Westerners, including a large community of American expatriates, eager to sample its melies.

The structure of Pragne mixes the oldest with he newest elements. From the medieval and Hapsburg far past, to the Communist near past, to the capitalist present. The city is gad out as a series of conjugative cityles. At the center is



Figure B13.4 Progue, Czech Republic, has become a popular destination among tourists, rargety because it has retained much of its historic charm.

haste changes that have turned Eastern European cities in a new direction

With the introduction of capitalism, cities have moved away from a centrally planned economy and loward a market economy. This is particularly evident in the land market, where property is treated

the historical core by far the most prominent administrative and commercial part of the city, but containing only 5 percent of the total population. Surrounding this core is a ring of pre- World War II apartment blocks, spinkled with industrial districts, that still contain about 40 percent of the population. Around this ring is another belt of more luxurious single-family houses and garden towns, inspired by the hinking of Ebenezer Howard (see Chapter 12). This belt is sarrounded by an outer periphery that is situated within the municipal boundaries but is still largely rural. Fortunately, he Communist government, which ruled from 945 ap. 1 1989, left much of this arban development alone, focusing instead on the construction of large housing estates. Initial plans called for a balance of housing, jobs, and services. but these ideals were quickly abandoned in favor of quick CORS FULLION

Since the collapse of the Communist government in 1989. Prague has been the focus of intense change. The Czech Republic-especially Prague-has emerged as a favored investment region for foreign trading companies and producer services. These companies have occupied much of the historical core and have also built some new structures nearby in the older prewar districts, Residential usage in the center has declined, especially for lower meome people. Gentrification has taken hold in the remaining residential properties, rent in one central district increased five-fold between 1995 and 1998. By the end of the 1990s, the outer city also suburbanized, as single-family houses, new apartments, and especially stores, warehouses, and offices were constructed. As with other economically promising cities, Prague has added a ring of development on its outskirts and has also revitalized much of its innercity as well particularly near the core However Prague has also become more divided economically. It now has greater. income disparities than London, and a targe segment of the population is shullout or the increasing y expensive housing market.

as a commodity to be bought and sold. Especially within desirable cities, values of certain properties have usen considerably.

The sectoral weighting of the economy has changed. Inefficient industries—previously protected by an absence of imports from the West—have been

rapidly abandoned in the wake of capitainst restructuring. Large tracts of industrial and have been left abandoned and the workers in these industries have been laid off. By contrast, the previously neglected service sector has expanded tremendously. Much of this transformation has been instiguted by foreign companies, but there has also been an upsurge of small-scale private enterprise in many cities. With changes in the economy, a strong gray or black-market economy has proliferated as people seek to eke out a living in any way possible.

In addition, evidence suggests that socioeconomic divisions within the cities are increasing and that the housing situation is generally guite unstable A few individuals—often former government and party officials, entrepreneurs, former scientists, and experts-are wealthy enough to afford newly constructed, high-quality housing in central locations and in new suburbs. Many households whose economic situation has stabilized have opted to move out of some of the Communistera housing estates, which may yet become zones of urban blight. Gentriheation is pushing existing populations of poor and elderly one of desirable areas, Housing shortages, bad enough during the Communist period, have become acute as property rents have been adjowed to escalate and state subsidies have dwindied. Much of the new housing that was developed goes to the affluent, who stal constitute a small segment of society.

The previous total tanan nature of economic planming has created a distaste for any form of urban planning. Local governments are often weak, and many have to contend with a daunting array of problems. Many local issues, such as historic preservation, may end up taking a backscar to problems of finding jobs and housing for everybody.

Eastern European cities have a long historical legacy dating from before the Communist era, although the region as a whole was not highly urbanized. Many cities, especially small and medium-sized cities, experienced their greatest growth during the Communist era. The imprint on the land, in the form of massive factory works, huge apartment complexes, and triumphalist architecture, is a new legacy with which the post-Communist city must cortend

CITIES IN JAPAN

Outside of Europe and North America, the most populous developed region is Japan Unlike most other Asian countries, Japan was never victimized by outside colonization. Strong and self-sufficient, Japan maintained a society that was closed to the outs de world from the 1600s until 1868, when a opened itself up to Western commerce and diplomacy. During the late mneteenth century, Japan became an imposing military and economic power. Japan defeated China in 1895 and Russia in 1905, becoming one of the most powerful nations in the world, Japanese colonial expansion in the years leading up to World War II created a vast East Asian empire. Japan's defeat led it to renounce imperialism and military aggression but also enabled it to concentrate fully on economic development Today, Japan is the third largest economy in the world, after the United States and China, According to Fortune magazine, it is the home to six of the world's 50 largest corporations in 2013, and one of the world's 20 largest banks a decline from 1990. when it contained 11 out of 20°). Even with its recent spate of bad economic fortune, Japan's economic power extends much farther than its military power ever d d

Japanese cities have a long history, primarily as administrative centers for lords and samural. Although Japan was a feudal society before 1870, it contained a fairty well established system of towns. Many of the significant Japanese cities of today were once old "castle towns" controlled by the regional lord Preindustrial Japan contained three especially important cities—Edo (Tokyo), the political capital, Osaka, the commercial capital, and Kyoto, the sacred center—that were large by world standards.

After 1870 commerce and radustry became much more important and significantly affected Japanese urbanization. By 1875, Japan was only about 10 per cent urbanized. Tokyo, the nation's capital and primary city, was large, but it had fewer than 1 million inhabitants and was dwarfed by large cities in the United States, Europe, and China. No other Japanese city was among the 30 most populous in the world.

By 1925 Japan's cities had begun to assert themselves. Now Tokyo was clearly in the top tier of cities. along with London and New York. It had become a "world city" in terms of its population and would soon become one in terms of its economic influence. Yet urban Japan contained only about one-fourth of the national population. In contrast to North America and Western Europe, Japan remained overwhelmingly rural. It was only after World War II that Japan urbanized rapidly, shooting from 24 percent urban to 72 percent urban between 1945 and 1970, a transformation more dramatic than that of any other country. Japan thus accomplished in 25 years what had taken the United States 100 years, By 1968 Tokyo was the largest city in the world, a position it maintains to this day, and Osaka was the fourth largest.

In addition to oversil urban growth, Japan's industrialization also spawned a major redistribution of its population. Peripheral castle towns atrophied as more people moved to the coastal plain along the Pacific coast of the main island of Horisbu. A densely woven urban landscape, known as the Tokado corridor, was created among Tokyo, Nagoya, and Osaka. This section comains some of the densest populations and highest land values in the world. If extended fur ther south, Japan's megalopolis also includes Kyoto the ancient capital and still an important city), Kobe, Hiroshima, and the narthern Kyushu island cities of Kitakyushu and Pukuoka (Figure 13.11). This megalopolis contains almost two-thirds of Japan's population on only 3 percent of its land.

Structure of Japanese Cities

The complexity of Japanese cities cannot be fully described in this brief section, and you might wish to consult a couple of useful books listed in the Readings for more information. However, a few important aspects of Japanese cities are mentioned here. First, the primary factor in Japanese urban morphology is density. Japan's population density of 873 people per square mile is similar to England, Holland, and Beigium, but Japan has a far more rugged topography. The amount of land available for agriculture or urban development is a small proportion, perhaps one-eighth, of the total. This lack of exploitable land

dramatically boosts the physiological density, that is, the number of people divided by the amount of land suitable for most agricultural and urban uses. Therefore, the Japanese have had to devise ways of accommodating urbanism within tiny spaces. Further complicating the picture is Lapan's location on some major tectonic fault lines. Earthquakes are quite common, and, until recently, tall buildings were rare.

Land in Japan is incredibly valuable. Up until the early 1990s, land prices increased rapidly but the collapse of Japan's "bubble economy" brought down property values. When Japanese property was at its peak, the Japanese land price per unit area was 100 times greater than that of the United States and office space in Tokyo cost 10 times more than in New York. In fact, Japanese real estate speculation in the United States was prompted by the relative cheapness of American land. Today, even after the cooling of land prices. Tokyo remains the world's most expensive city, according to a CNN/Money survey, followed by Osaka.

As a result of density and cost, the Japanese use all of the available land in an intensive manner. Within the cities, almost no property is allowed to go idle. If it is being held on speculation, it will be used for something ease on an interim basis. The size of housing space is restricted by its cost. The Japanese are wealthy people, but most cannot afford spaceous housing. The average price for a newer condominum in central Tokyo is over \$1500 per square foot; older units are between \$750 and \$1500 per square foot. As a result, the average household crams into a tiny fiving space, smaller than one finds in Western Europe and downright diminutive by American standards. Most Japanese prefer to entertain outside their bonies.

Japanese cities are compact and monocentric, Compactness has long been a feature of the Japanese lifestyle, even when the population was smaller and rural. Streets are narrow, parking lots are rare, shops and residences are small, and inside the home most Japanese utilize space to the fullest. This compactness extends to the city in a whole. As a rule, Japanese cities have decentralized, but they continue to be intensely focused around the central



Figure 13.11 The bulk of Japan's population lives an a megalopolis, stretching east to west from Tokyo through Osaka to Fukuoka on Japan's southern island of Kyushu. Source: Karan PP and Kristin Stapleton, 1997

business district. Because land here is so expensive, most residential uses have been pushed out in favor of commercial property. The mass transit system, among the most efficient and most crowded in the world, ferries people into the city (Figure 13-12). The average Tokyo commute is over two hours round trip and congestion is a major problem (see Box 13-4). Even so, polycentric edge cities are rare

The Japanese neighborhood is a complex mix of different uses. The functional separation so common in the United States is replaced by functional integration of residential and commercial uses. Despite Japan's reputation as a land of huge conglomerates, Japanese cities are havens for small businesses, especially stores and restaurntis. There are proportionately twice as many wholesalers and retailers as in the United States. Mom and-pop stores flourish because the Japanese prefer to patronize them, even if they

are more expensive Mans and huge "category-killer" stores—large retail outlets specializing in one type of merchandise, like electronics—exist, but have yet



Figure 13.12 Japan's trains are so popular that it often requires the services of professional "erammers" to ensure that everybody can get on board.

BOX 13.4 Technology and Urban Geography

HIGH TECHNOLOGY INTELLIGENT TRAFFIC SYSTEMS AND CONGESTION RELIEF IN JAPANESE CITIES

As its true throughout the world, automobile usage in apparese cross in increasing rapidly. If gh densities and limited space have aggravated traffic congestion. The traditional way to deal with traffic congestion has been to build more highways. The difficulty many Japanese cross expenence is that the demand for roads far outstrips any opportunity to increase road capacity. Many Japanese cross were built up well before the automobile era and space is already at an extraordinary premium. Moreover catzens in Japan have balked at developing muse and wider roads, worrying about the effect on the social and natural environment.

Enter the promise of high technology. Intelligent Trafhe Systems (ITS). These systems promise to not only reduce traffic congestion but to also enhance traffic safety. apanese auto companies have been leaders to this field. with Toyota and Nissan particularly active. One of the more promising developments has been proposed by Nissan wtome Company. They are prioring a system that relies on vehicle-to infrastructure communication. The informafrom comes from optical beacons along the side of the road other ITS use sensors planted in the road itself), and informat on from other yeb cles as well. Data from these sources is then sent to a driver's navigation screen where real-time maps exhibit traffic flow. This way, congestion madblocks can be avoided. Perhaps more valuable in the ability of this. system to let drivers know of the approach of other cars and also to warn drivers of speeding in school zones. Toyota Motor Corporation is proposing to test a similar system.

Intelligent transportation system technology has become acreasingly popular. Global positioning devices on vehicles and sensors on or under readways combine with fast computers to process and deliver traffic-related information in an intuitive way (Figure B13.5). These tests now taking place in Japan promise to help mitigate the worst effects of increased traffic in cases throughout the world.



Figure B13.5 High technology navigation systems now being tested in Japanese cities promise to alleviate urban traffic congestion while enhancing safety

to fully penetrate into Japanese shopping habits. The cohesiveness of the urban neighborhood is enhanced by the fact that shopkeepers and customers live near their stores.

Japanese cities are socially integrated. Overall, the distribution of income is far more even in Japan than in the United States. Even heads of grant corporations are paid relatively modest salaries, and there are far fewer desperately poor people in Japan. This greater economic equality extends to places as well as individuals. Within Osaka's metropolitan area, for example, the wealthiest jurisdiction has a per capita income only 50 percent greater than the poorest town. This contrasts sharply with spatial income gaps in U.S. cities, in the Cleveland metropolitan area, for example, the wealthiest census tract enjoyed a median household income of more than \$200,000 in 2000, a number 35 times greater than the poorest tract. Japanese he ghborhoods are relatively well integrated in terms of income and occupation, although they certainly contain many different levels of housing quality from expensive condominiums to order wooden, low income housing. Nevertheless, there is some place based social separation. Wealthier people prefer to live closer to work, especially in Tokyo, where they tend to occupy more inner-city locations.

Despite the crowding and the jumble of different uses, Japanese cities are exceptionally clean and relatively crime free. Litter is not a problem, although industrial and automobile pollution has become onerous. Rates of both violent and property crimes in Japan are among the lowest in the world. Most women fee safe walking alone at night, and a lost waller will more often than not be returned. An overwhelming sense of social cohesiveness marks Japanese society.

Changes in Japanese Cities

Japanese cities have changed rapidly in the last half century, and they continue to change. Some of this change has been orchestrated by Japan's powerful government ministries. In the 1980s, for example, the government established a plan to create a series of technological cities, which it called *technopolis cities*, that would operate as high-technology incubators (Figure 13.13). An additional goal was to try to redirect some of the growth away from the major cities. This plan was intended to aid regions that were relatively backward and that continued to suffer from "brain drain" of their best and brightest residents. Its success is hard to measure right now, because Japan has been in a profound economic sump since the 1990s.

One change not directly orchestrated by the government is the increase in Japan's urban diversity. The Japanese consider themselves unique, and they

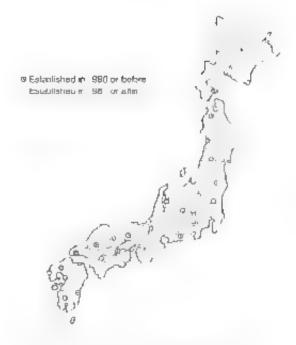


Figure 13.13 Map showing Japan's technopolis centers as of 1993, after which the program slowed. Technopolis centers were designated by the government to act as incubators of high-technology industries. Source Japanese Beausing Agency, 1993

consider Japan to be a homogeneous society. This is not entirely true, however, about 4 percent of Japanese belong to some minority group. A few people with Chinese ancestry inhabit the southern island. of Kyushu, and there are still severa. Ainu peoples, an indigenous people of Japan, living in the northem island of Hokkaido. There is also an outcaste group, the burakumin, who are of Japanese descent but have been marked as a distinct caste for 1,000. years. The Korean community, many of whom were forced into Japan after it colonized Korea, are now largely Japanese-born but are not citizens. In addition, the 1980s and 1990s witnessed a surge in immigration among Chinese, Brazilians, South Asians, and Filipinos. Most come for employment and take jobs shunned by the Japanese themselves. Unlike class groups, which are largely integrated, distinct ethnic groups including the burakumin, are segregated within Japanese cities

WRAPPING UP

Although all cities share some common charactenstics, it is important for urban geographers to recognize some of the major differences among cities, particularly among broad cultural regions. Cities within the developed world share many trais-By and large, they possess adequate infrastructure fulgaties, water, sewer, streets, housing) to accommodate most of their population. They are primarily found in countries that have already urbanized and where population growth in general is stable. This means that urban populations are increasing slowly, flat all and most cities are mature.

Within this broad set of characteristics, however, differences abound. Most of this chapter has focused on Western European cities and has tried to uncover features that distinguish these cities from those of North America. In addition, we have discussed how European cities are changing. What are the new challenges-economic and social-they must confront, and how are they dealing with these challenges? One set of cities experiencing massive changes are those of Eastern Europe. For most of the twent eth century, these cities were organized according to the logic of communism. As a result, particular economic forces that are intrinsic to urbanorganization elsewhere, such as land value, were of negatible importance. Since the 1990s, these cities have contended with transitions to more of a free market system. Japanese cities represent something else entirely, they exist within the developed world but fit within an entirely different cultural realm. Within all of these areas, cities display important individual variations, but understanding broad differences is important, too. In Chapters 14 and 15 we will examine the fastest growing cities in the world-those within the developing world. We will see how economic constraints and population growth heap to create a set of entirely different features.



CITIES IN THE LESS DEVELOPED WORLD

"Chicago" [a district in Abidjan, Ivory Coast] is a slum in the bush, a checkerwork of corrugated zinc roofs and walls made of cardboard and black plastic wrap. It is located in a gully teening with coconut pains and oil paints, and is ravaged by flooding. Few residents have easy access to electricity, a sewage system, or a clean water supply. The crumbly red laterite earth crawls with foot-long tizards both inside and outside the shacks. Children

defecate in a stream filled with garbage and pigs, droning with malarial mosquitoes. In this stream women do the washing. Young unemployed men spend their time drinking beer palm wine and gin while gambling on pinball games constructed out of rotting wood and rusty nails. These are the same youths who rob houses in more prosperous lyonun neighborhoods at night.

-R JBERT RAPLAN 1994, 29 48-49

In 1850, the average urban dweller was likely to be a factory worker in one of the new industrial cities in Great Britain. New England, or the Ruhr Valley. In a world that was still overwhelmingly rural, he or she would have recently come from the countryside, where opportunities had withered, to live and work in one of the great steam-powered mills. By 1960 urban life was more commonplace, and the average urban dweller would likely be an office worker in any number of large or medium-sized cities spread throughout North America and Europe Several urban dwellers would have come from the dountry and some may have immigrated from abroad, but many others would have been born and raised in the city.

Today, in contrast, the average urban dweller is akely to live in a third world city, one whose population is 10 times greater than it was in 1960. In this volume, the terms third world less developed world, and developing countries are used interchangeably. They all refer to the same type of national economy, one that has yet to fully industrialize and where a large portion of the population.

continues to live in poverty. Inhabitants are akely to be very poor, perhaps living in a jerry rigged shanty town-without benefit of piped water, sewers, or electricity-or maybe in slightly better, but still impoverished, accommodations. Like the average urban dweller of 150 years ago, the urbanite of today is probably also a migrant from the countryside, ficeing a rural existence that holds no more promise. Like the urban dweller of 1850, today's urbanite is entering into a city where conditions may be charstably described as unhygienic, uncomfortable, and possibly dangerous. In fact, in many respects, the situation today in many third world cities is worse. But for those who decide to migrate, this city-squalid as it may seem to our eyes-offers hope and the possibility of a better life. So people keep coming.

THE NEW URBAN MAIORITY

The majority of the world's current urban dwellers live in third world cities. Cities in less developed

countries have mustiroomed while cities in the developed world have remained largely stable, at least in terms of population if not in consumption of land. Third world eites now constitute 17 of the world's 25 largest cities. Yet, you may be unfamiliar with many of them. They do not often make the news, unless they are afflicted by some vast human or natural disaster. They are rarely tourist destinafions in their own right, although some are staging points en route to tropical resorts. They are not yet pivotal in the global economy, lacking stock markets, corporate headquarters, and major banks in fact, most third world cities are made ap primarily of very poor people. Nevertheless, these cities will loom larger and larger as the century progresses. They will increasingly enter into our consciousness, both because of the many problems they face and also because of the promise they hold for humanity.

How the Cities Have Grown

As we have discussed in previous chapters, Europe and North America were the first regions to urbanize, primarily as a result of a shift from an agrarian to an industrial economy. Throughout the world,

arbanization percentages roughly followed rates of economic development. Thus, cities in the less developed world (as defined by their economic development) remained overwhelmingly rural wellinto the twentieth century

A map of world urban percentages shows that developed countries, as a whole, have a far greater percentage of their population living in cities than do less developed countries (Figure 14.1). In the more developed countries of Europe, North America, Japan, and Australia, about 76 percent of the population resides in arban places, in the less developed countries that number is only about 47 percent. Several factors, however complicate this picture.

In terms of urbanization, the differences among less developed countries exceed differences among developed countries. Less developed countries display a tremendous range in the percentage of arban residents. One reason for these differences is income. Figure 14.2 illustrates a strong positive. relationship between gross domestic product (GDP) per capita and urban percentages. This is not surprising when you consider that wealthier countries asually possess a more dynamic economy and are



Figure 14.1 Map of world by percent urban. Great variations exist anying the note to banaced countries in the developed world and the less arbanized countries in the developing world. The earkest shades indicate urbanization rates over 70 percent. The lighter shades indicate urbanization rates under 40 percent. Source: Authors

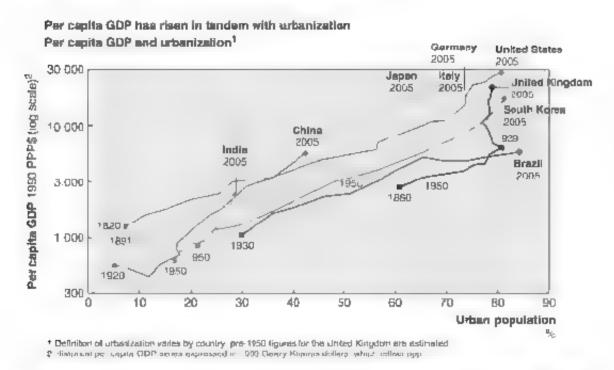


Figure 14.2. The percentage orban is loosely related to the GDP percapital and easure of relative prosperity. Source: http://www.floatingparb.com/20_305/68/per-capital-gap--bes-wide-orbanization/

more likely to undergo structural transformations that spur tural to urban migration. There are several exceptions to this trend, however

Latin American countries, for example, are highly urbanized. As a whole, about three-quarters of the population in Central and South America ave in cities, a proportion similar to that of North America. Uruguay and Argentina-in South America's more prosperous "southern cone"—have reached urban proportions of 90 percent. Another region that is more highly urbanized is North Africa and the Middle East, for example, Libya is about 85 percent urban. In these areas the urban percentage exceeds what would be expected given income levels. Some analysts refer to this phenomenon at overarbanization—a level of urbanization exceeding apparent economic development. There are several factors that could account for this phenomenon. In the case of Libya, it is likely a function of oil money and an overall and climate tohospitable to many rural pursuits. In contrast, in China and India a relatively small percentage of their people lives in cities. These

countries have levels of urbanization that are smaller than what would be expected, a phenomenon known as underurbanization. The factors beaund this are also complex. Both countries emerge from very old traditions and a long history of rural, village life. In China moreover there is the legacy of a government that until recently tightly controlled population movements and forced many of its residents to remain in the countryside However, with national populations of a billion each, both China and India have more people living in cities than anywhere else and China is urbanizing quite rapidly. At the other extreme from South America and the Middle East are sub-Saharan African countries with urban proportions between 20 and 65 percent

These different rates of arbanization notw the standing, the less developed world is catching up quite rapidly to the developed world in terms of urbanization. In 1950, fewer than one in six people in the third world lived in urban areas; now just under half do. And, although the population of developing countries is increasing at a rapid rate.

the population of some urban areas is increasing even more rapidly—at a rate approaching 5 percent a year. This rate far exceeds the urban growth rates. in developed countries, which are all under 1 percent (Figure 14.3). This fast increase has led to a situation where today just over half of the world's population can be said to be urban. According to the World Health organization, the urban proportion will be closer to 70 percent by 2030. This change is due entirely to urbanization in the third world and not in the first world.

It is important to distinguish between urbanization and urban growth. Urbanization refers to the percentage of people who live in cities and generally results from a shift in population from countryside to the city. Urban growth simply refers to the overall growth in the population that lives in cities. If the national population is increasing overall, etties grow even without any population shift from maral-to-urban areas. In the case of urbanization, the population of cities in the country grows faster than the country's population as a whole, indicating

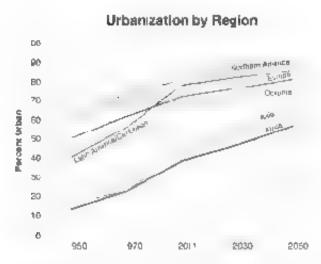


Figure 14.3 Urbanization rates by region. North Amer. ica, Japan, and Europe are at the saturation stage of arbunization and so are not arbanizing much more. Other Asian regions and Africa, on the other hand, experienced tremendous urbanization during the last three decades of the twentieth century Source: Authors

a shift from the rural to the urban areas. Urbanization on top of population growth is common and leads to urban populations that double every 10 years or so

At the same time, the rates of urban growth are declining in most developed countries, partly as a result of overall decreases in fert—ty rates and partly because more of these societies have completed the arbanization process and so already contain a large proportion of the population in cities. From a rate of approximately 5.2 percent in the 1950s, urban growth. today has decined to about 2.1 percent. Although shis shows a reduction in relative growth. It is important to keep in mind that this growth is taking place within a much larger urban base. In the 1950s, most third world cities were small—ail had fewer than 5 milfrom residents, and all but 20 or so (most of them in China) had fewer than 1 million. Today, a smaller relative growth on top of much larger arban populations. results in many new residents every year

The explosion in the urban copulation has created a whole new set of megacities, which we define as eities with metropolitan populations of more than B million. In the past most of these megacitics were located in the more developed countries. Today, they are predominantly found within the less developed. world, many with populations over 20 malton. The fact that most of the world's most populous cities are located in less developed countries does not mean that cities in Europe, Japan, and North America are shrinking. In fact, they are not However, they are not growing as rapidly as cities in Asia, Africa, and Latin America. At the same time, it is important to note that cities like New York, Tokyo, and London grew rapidly during earlier historical periods. There is no reason to think that growth rates in the new megacities will not likewise slow down, in fact, there is some indication that this is happening now

Demographic Factors Involved in Urban Growth

In considering why third world cities have grown so large in such a short period of time, we first consider. the main demographic factors that lead directly to urban population growth. In the next section, we then discuss the underlying reasons that cause some of these demographic factors, particularly migration. Demographic factors are tied directly to city growth and express this growth as a function of overall population increase and population redistribution. Three demographic processes contribute to urban growth in less developed countries natural increase, rural-to-urban in gration, and the primate city phenomenon.

Natural Increase Nearly all less developed countries are in the midst of a population explosion. Overall, national populations are growing at an annual rate of between 1 and 4 percent. Although immigration and emigration can affect population growth, they are not nearly as important a factor as natural increase—the gap between the number of burths and the number of deaths. Less developed countries are in the midst of a demographic transition dating to the latter part of the twentieth century, duning which their death rates have declined rapidly while their birth rates have remained high. Under these circumstances their populations will continue to increase until their birth rates come down. Some countries, notably China but also many of the newly industrialized countries of East and Southeast Asia, have essentially closed the gap between birth and death rates, whereas in countries in Africa and the Middle East, the gap remains enormous. High rates of natural increase mean that third world cities are growing independent of migration

Urbanization Curve Most third world cities are now at the acceleration phase of the urbanization curve. The urbanization curve represents an "S" shape moving from a more dispersed, rural society, where less than 20 percent of the population lives in cities, to an urban society, where more than 75 percent lives in cities, a phase known as urban saturation (Figure 14.4). The acceleration phase links these two phases and represents a period of tremendous rural-to-urban inigration, also known as urban in-magration (not to be confused with international immigration). Once a society reaches urban saturation increases in city size are often more a function of urban-to-urban migration, in which people move from one city to another in

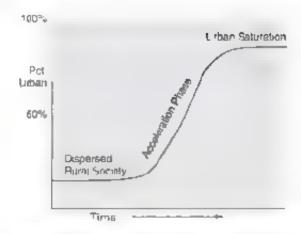


Figure 14.4 Figure showing the different stages of the orbit transmission curve. Source. Authors.

search of better opportunities or amenities, than of rural-to-urban migration

The degree to which in-migration accounts for urban growth must be considered alongside the overal rate of urban growth. For all lower- and middle-norme countries (what we might consider as less developed countries), the average annual rate of urban growth is 2.7 percent per year. Of this, approximately 44 percent is due to migration with the remainder due to overall population growth. Compare this with countries in the developed world, where the urban population grows at a stately 1 percent a year, with migration contributing only 30 percent of this.

There exists wide variations among countries (Table 14.1). In China, both the degree of in-angration and the overall urbanization rate are high. China's cities are growing at a phenomenarate, but attle of it is due to the overal, population growth rate. The same is true of the very populous country of Indonesia, where urbanization rates continue to be high. By contrast, Asia's other demographic grant-India-exhibits slightly lower urban growth and a much lower percentage of growth that stems from migration. A highly urbanized country Lke Uruguay exhibits both small contributions of in-migration toward urban growth and low rates of urban growth in general, indicating low urbanzation increases and low natural increases. Braza-Les somewhere in the middle; its urban population grew by little more than a quarter between 1990 and 2003. However, because it has such a large

Table 14.1 Estimates of Net Migration's Share of Lirban Growth, 1990-2003

	Cohun	Magnaton	
	Comstress	Share (9.)	
A I low and midule			
песоте соптител	2.7	44	
Albania	1,3	123	
Lesotho	4,2	76	
andonesia.	4.2	67	
Bangisdesh	4.1	59	
Kenya	5.6	57	
Nepal	5.2	54	
E Salvacor	3.8	50	
South Korea	18	50	
Thailand	1,5	47	
Iran	2.8	46	
Nigona	4.9	45	
Philippines	3.9	44	
Angola	4.9	43	
Tunisia	2.6	42	
Ecuador	3.0	40	
So Lanke	2.1	38	
Brazil	2,1	33	
ndza	2.5	32	
Colembia	2.7	50	
Costa Rica	3.0	30	
Uruguny	1.0	30	
Cuba	0,7	29	
Peru	2,3	22	
Iraq	2 2	_9	

Source: World Bank, World Development Indicators 2005. Table 2.1 and 3.10

population to begin with, this transformation he ped to feed already enormous megacities. In general, we witness the much higher contribution of migration among certain fast-growing countries (such as in sub-Saharan Africa) and some newly industrialized economies (such as China and South Korea, interestingly, many countries in Europe also report a very high share of urban growth from migration, but largely because their population growth rates are either stagnant or declining. In general, these figures demonstrate that urban growth in the third world is affected by both urbanization and natural increase, but that the contribution of each component varies

One additional point to consider is the extent to which urban migration to cities is temporary Inmany countries, people (often working-age men) move to the city to find jobs but continue to support a family in the village. They never expect to reside permanently in the city and so are termed circulators or temporary migrants. Circulators can be substantial in number, reaching 70 percent of the total urban population in China, Indonesia, and the Philippines, and they are a significant presence in nearly all third world cities. As a group, circulators are often not counted in the census, so the actual size of many cities is underestimated (Box 14).

Primacy Living in a third world city today has come to mean living in a very large city of more than I midden inhabitants, more than one-third of arban dwellers now are in such cities. (This, however, is still lower than the situation in the United States, where about one half of the population lives in metropolitan areas of more than I million.) Much of the growth of large cities or megacities relates to the rank-size relationship of cities, discussed in detail. in Chapter 3. Intense arbanization focused on a single. primate city provides the fuel that enables that city to grow into a megacity. Many third world countries contain a single primate city that is disproportionalely. large. A simple rule of thumb is that this city is significantly greater than twice the size of the next largest city. Bangkok for example has a population of 6.9. million, which is 25 times that of the second largest city in Thialaid. Its economy is about half of Thailand's gross domestic product (GDP) Buenos Aires is home to one-third of all Argentimans.

Not all third world courtnes, however, are built around primate cities. For example, both China and India contain several large cities but do not have a single primate city. Brazil contains two primate cities, São Paulo and Rio de Janeiro. São Paulo is more popalous than Rio, but both cities are much larger than any other Brazilian cities, In India, the four largest cities are primate within their respective macroregional spheres.

There is more to primate cities than their population size. Primacy also indicates a disproportionate share of economic activity, cultural dominance, and

BOX 14.1 MIGRATION AS A HOLSEROLD PROCESS.

Rural-to-urban imgration is a key factor that propels third world urbanization. But what propels migration^a Much of the migration analysis conducted by social scientists is based on the experiences of people in North America and Europe and has emphasized the importance of economic opportunity and amenities. Migration in the third world is probably also based on these concerns, but it may have additional complications. First, the pash factors of village afe, economic as well as cultural, are powerful agents in getting people to move to the city. In fact, they may be more important than the pull factors of the city. Menand women flee village constraints and traditions in order to partake of a freer life. Although cities are clearly perceived as places of hope and opportunity, rural residents move to the city not so much because of the great opportumbes in the city but because there are no opportunities. at home

Second different groups move for different reasons, Young men may seek money, young women may seek greater social liberties, and older women may seek to be

pontical control. Primate cities tend to overwhelm their countries, becoming the only destination of choice for ambitious people and acting as the primary fulcrum of growth and development. Primate cities also contain the major cultural activities, from movies to publishing houses to the premier universities. Moreover, many primate cities operate as the country's capital, with the mayor of the primate city being a major political force in his or her own right

Recently, countries have attempted to halance the growth of their primate cities with that of other cities, a process termed decentralization to smaller urban areas. One comparatively straightforward strategy is to move the country's capital to another city or to create a new city altogether. In the 1960s, for example, Brazil's capital was moved from Rio de Janetro to Brazilia. Brasilia was intended as a show-case for Brazil's aspirations, and it was meant to siphon off population from the overcrowded coast to the sparsely populated interior. It has now become a major city in its own right, with over 2 million people. Moreover, it has affected the relative population of

near their relatives. Third, migration is often part of a larger household strategy that seeks to diversify the income streams by sending some household members into the city to find work. In these instances, urban settlement is simply one stage of circular migration whereby migrants move to the city for a few months and then return to the vil age when they can be most useful there. Fourth, the choice of destinations follows patterns previously set forth by friends and relatives. Chain migration occurs as individuals near about opportunities from people who have already made the move and may help smooth the way. This was also true of migration in countries that are now industrialized.

Refugees are another category altogether because they are pushed by fear of being persecuted or worse should they remain in their home regions. Political instability spurs massive refugee migrations, and refugees have become a major issue to many third world countries. Refugees sometames move to cities, but they are often forced into makeshift camps that can grow to be as populous as many cities.

Brazil's two main cities, as Rio has fai en further and further behind 5ão Paulo. More recently, the capital of Nigeria was moved from Lagos to Abuja, and Pakistan's capital was moved from Karachi to Islamabad. Suggestions have even been made that Argentina's capital could be moved from Buenos Aires to a small city in the Patagonia region.

The latest data indicate that, for whatever reason, the growth of primate cities has slowed, at least in comparison with smaller cities. The World Bank (2005) and UN Habitat (2008) reports that even though the percentage of the population that was urbanized increased between 1990 and 2003, from 44 to 49 percent, the proportion of the urban population living in the largest city declined a little, from 17 percent in 1990 to 16 percent in 2003. The urban hierarchy in Latin America has diversified, with much lower rates of primate city growth. Asian primate cities are growing at about the same rate as other cities in the less developed world. In Africa, the growth of primate cities has slowed down, but they are still growing at a fast rate.

Primate cities are not found only in the less developed world-Vienna, London, and Paris are examples of first world primate cities that once ruled jarge empires-but they are more common in the thard world. Perhaps because third world countries have such high poverty rates, primate cities have come to be viewed in a mainly negative light. In national economies in which scarcity is the rule, large urban centers absorb a highly disproportionate share of limited resources. Most investment funds continue to be focused around the primate city Several case studies demonstrate that more than haif of all manufacturing growth and foreign investment are concentrated in and around the primate city Moreover, branch headquarters of multinational corporations tend to locate there. This is not necessarily a negative development, however in poor countries with limited amounts of givestment capital, skilled tabor, and institutional support, primate cities often provide the necessary agglomeration economies (see Chapter 6) that concentrate capital and highly skilled labor in one place. They are often the locus of fremendous innovation, and they may help propel the entire national economy.

As an example from a newly industrialized country like South Korea, Seoul continues to be a primate city with one-quarter of South Korea's urbanites and one fifth of the total population. But Seoul's growth, which was 5 percent between 1970 and 1975, and had dropped to less than 2 percent between 1990 and 1995, is now predicted to actually decline an average of 0.5 percent a year between 2006 and 2020 (from the database City Mayors, www.unhabitat.org)

At the same time, however, massive population growth has created serious problems for primate times. Land costs tend to be high, making it especially difficult for the poor to find decent housing Pollution and congestion run rampant, and crime is often a severe problem.

Third world cities are growing as a result of a combination of natural increase, in-migration, and primacy. However, there is a wide range of expenences among these cities, For example, most African cities south of the Sahara are growing due to massive rural-to-urban migration. The emancipation of South

Africa is the latest reflection of this trend as Africans who were once prohibited from living in cities are now free to move to those areas with the greatest employment opportunities. In many Asian countries, arban growth is more a function of natural increase than of migration. In most Latin American countries, by contrast, arbanization rates are already quite high and many countries have reached the phase of urban saturation. In Latin America, therefore, the growth of particular cities is more a function of urban-to-urban migration, with the increasing size of select cities largely due to urban primacy.

ORIGINS OF THIRD WORLD URBANIZATION

Demographic factors do not address the deeper reasons behind the massive urbanization that is causing cities in the third world to swell. Certainly, one could argue that it is now the turn for less developed countries to urbanize, and as such they are merely following the path set down by Britain more than 150 years ago. However, British urbanization took place over a much longer period of time. Indeed it could be said that the speed of urbanization among less developed countries is unprecedented, and that the sizes their cities are now reaching exceed anything the world has yet seen, particularly in light of that fact that they often lack the necessary jobs, shelter, and infrastructure to accommodate existing residents, not to mention new arrivals.

Theories abound concerning the causes of third world urbanization. These theories view the causes and prospects for third world urbanization quite differently, and they have real relevance for how basic policies related to urbanization, including investment, housing provision, and debt relief, are formulated. Although there are many specific theories, they can be distilled into two overarching perspectives, modernization and the international political economy.

Modernization Perspective

The modernization perspective derives from neoclassical economics, and it dominated the way we viewed third world eities for many decades following World War II Essentially, the modernization perspective argues that the less developed countries are, in fact, "developing"; that is, they are in a process of transation from preindustrial to industrial society. This transition influences all aspects of society Population growth can be attributed to a demographic transition from high rates to low rates of mortality and fertility. Developing societies are also in the midst of a capitalist transformation in which production and markets, including many labor markets, are opening up. This is in sharp contrast to the more restrictive labor conditions that marked many colonial societies. The modernization perspective also assumes that cultural changes might replace indigenous values with "Western" values, including rationalism, science, and a strong work other. Enfolded within this set of transitions is an economic shift from an agranan economy, based on subsistence and primary sector activities, to an industrial economy based on manufacturing.

According to the modernization perspective, such interlocking transations spur the growth of cities in a manner that resembles carrier urban growth in Europe

and North America. As the economy becomes more industrialized—as the economic emphasis shifts from the primary to the secondary sector-jobs and investment are increasingly located in urban areas. Cities, and the primate city in particular, serve as catalysts for further development by concentrating capital, infrastructure, and highly skilled labor in a central place. It naturally follows that for a period of time, wide discrepancies will exist between a more modern, developed, westernized sector on the one hand and a traditional, underdeveloped sector on the other hand. These sectors correspond geographically at first, with the modern sector characterizing the region sarrounding the primate city and the traditional sector characterizing much of the rest of the country. According to the modernization perspective, this dualistic structure is also transitional. In time, secondary and then tertiary cities become largeted for investment in a kind of "trickle-down" effect. This process might also be described as **hierarchical**. diffusion (Figure 14.5). Over time, modernization will diffuse to the enune country, at which point the country will be developed.

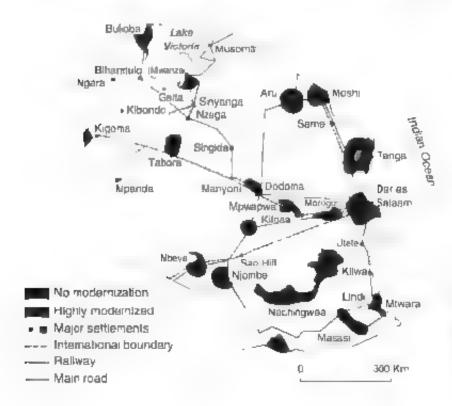


Figure 14.5 Map of the modernization surface in Tanzania. This map was developed by geographer Peter Gould in the 460s. He saw the distribution of development "islands" linked by transportation lines through underdeveloped countryside. Source: Potter, Robert B., 1985.

Proportion of the Population Living Below the National Poverty Line Latest Estimates 'Urban and Rural')

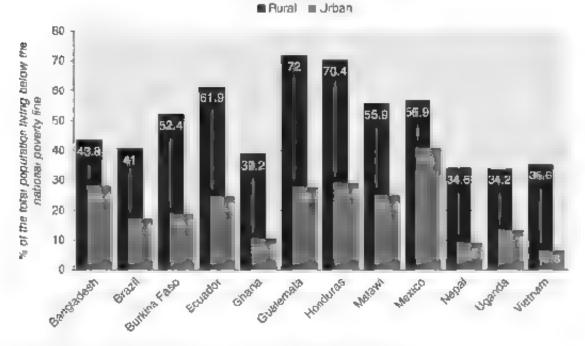


Figure 14.6 Urban and rural poverty for selected developing countries 20.0 Source: http://cesn.org/urticle.php/id=9_8.

The economic disparities between rural and urban regions within a country are often quite marked Figure 14.6 demonstrates the level of poverty mabout 2010 between rural and urban regions in selected countries. What is notable is that rural poverty exceeds urban poverty in every single case. In countries I ke Guatemala, Honduras, and Ecuador, Nepal, Uganda, and Vietnam rural poverty is two to three times greater than poverty in the cities. These disparities clearly motivate rural-to-orban magneticn.

The moderatzation perspective further proposes that minal disparities in development within a country result in mass internal migration from poorer to wealthier regions, sparks a great deal of movement to a single city, and thus promotes urban primacy. As moderatzation diffuses, however, the concentration in one main center deflects to several other urban centers. In the optimistic assessment of this perspective, greater wealth allows cities to catch up with the demands for jobs, housing, and services

Support for the modernization perspective comes primarily from the experiences of the developed world. However, the indications are certainly strong that a number of less developed countries have andergone the same series of transitions, at least as far as more objective information is concerned. For example, Figure 14.2 demonstrates the close association between urbanization and economic growth Countries that show progress in terms of their average income also are more likely to increase he proportion of their population that lives in cities. Likewise, a sectoral shift can be noted as the primary sector share of the economy diminishes and the secondary sector share increases. Other data also point to shifts in demographic trends, for example, average fertility in many countries has declined and population growth, aithough still apparent, has eased

Not all less developed countries, however, appear to have followed a Western mode, of modernization. For example, several countries have continued to urbanize in the absence of any economic growth. For

International Political Economy Perspective The international political economy perspective proposes several theories to explain third world urbanization. The primary element these theories have in common is a consensus concerning the inadequacies of the modernization perspective. The main critique is that the modernization perspective tends to view economic development and urbanization as isolated with a particular country. It does not consider. the links between the economic development of one country or region and the economic development of other countries. Just as the economic system operates as an integrated global unit-and has done so for more than a century so explanations of urbanical tion need to take into account the interdependence of regions. In addition, the instancal conditions of countries vary tremendously Countries have developed during different economic eras, and it is impossible to equate industrialization and urbanizafrom in the late twentieth century with processes that occurred during the mid-nineteenth century

Moreover, the internal structures of countries vary a great deal as well. Given the history of colonialism and continued neocolonialism, the failure of modern ization theorists to take this into account constitutes an enormous oversight. Even among developing countries, there are wide variations in whether they were colonized, for what purpose they were colonized, and when they achieved independence. For example, most American countries declared independence well before interior sub Saharan Africa was ever colonized and even before the British government formally took over the administration of India from the trading companies.

Colonialism One theme of the international political economy perspective specifically exammes the conditions of colonization, which shaped the economies, the roles, and the distribution of cities. Most of the largest third world cities began as colonial capitals, including Calcutta, Bombay. Singapose, Lagos. Naurobi, and just about every city in the Americas. Some areas, chiefly in the Middle East, had a strong legacy of precolonial cities. In these areas, the colonia, powers tended to occupy the existing cities and turn them into centers of impenacontrol. In most other areas, the colonial powers built the bulk of the cities themselves, in a manner that best suited their economic and political needs. Likewise, the urban system was developed in order to serve colonial demands. This is obviously true in those areas where cities either did not exist prior to colonization or were wiped out by the colonizers, as occurred in Latin America. However, it also applies to those places, such as India, that enjoyed a rich urban tradit on

The demands of the colonial economy that drove the establishment of cities and determined the roles of colonial cities were quite clear. Cities were the specific conduits through which European powers extracted raw materials from the hinterland. Most colonial cities were established as ports and were more closely tied to the specific European power, aften termed the metropole, than to the colony's interior. As we discussed in Chapter 3, the mercantilist model, which is illustrated in Figure 3.3, describes how colonization operated over time. To recap, the stages of this model are exploration. In tial extraction on the coast itself, and the establishment of a colomal port tethered to the mother country. From this port, further settlements serve to extend the colonizers' reach into the interior, often along major river routes, in the search of more resources. The initial port, which continues to exercise an overwhelming predominance, bridges the interior of the colony with the colonizing power. Over time, the interior of the colony may began to develop internally as market centers and internal transportation links help to create a more balanced urban system.

BOX 14.2 TECHNOLOGY AND URBAN GEOGRAPHY

BRIDGING THE GLOBAL DIGITAL DIVIDE

Today, modernization is closely aligned with the expansion of various information technologies, especially access to computers, e-mail, and the World Wide Web. The Internet and the personal computer have become such a pervasive feature for so many of us that we forget that there remain large numbers of people who have sporagic or no access to this important technology. Within the last decade there has been much discussion of a "digital divide" between those who are connected to the Internet and those who are not. This divide is found at several scales, but probably is it nowhere as apparent as between the countries in the developed world compared to countries up the less developed world. The latest data confirms these disparities. According to UN-Habitat (2008), in 2002 there were 282 computers. per 1,000 people in the developed regions, compared with only 66 computers per 1,000 in less developed regions. For example, a recent survey showed that only 4.5 percent of Nigerians had access to a PC

As for the Internet, the data is equally bleak. According to the International Telecommunications Union (http://www.ta.nt/iTt-D/ict/stat stics/ict/ index html) the rate of Internet penetration in the less developed world is one-rightly the level of that of the more developed world.

Data published by Internet World Stats (http://www.internet worlds/ats.com/stats.htm) breaks down Internet usage by broad region and country. The result in Figure B14.1 shows has North America and Europe have very high rate of Internet usage at lenst as far as the percentage of the population with some exposure to the Internet. Asia shows lower penetration, but some countries—such as Japan and South Korea—are among the world leaders. Countries in the less developed world show much lower rates of Internet penetration. However, these are also countries poised to expand most rapidly in the coming years. Data is not available that distanguishes between urban and rural uses, although it is a ear that Internet access can bring many of the advantages of the city, especially access to information, to those who live in tital locales.

The challenge of providing Internet access to residents of developing countries has been taken up by several agence and philanthropists. One notable contributor is Professor Mahammad Yunus, who was awarded the 2006 Nobel Prize in Peace for his advocacy of micrologues through his Grameen Bank. Professor Yunus has also established the Grameen Cybernet. This is currently the largest Internet Service Provider in Bangladesh, and has been in the fore-front of trying to bring severa, of Bangladesh's companies and coast mets, no the policy revolution.

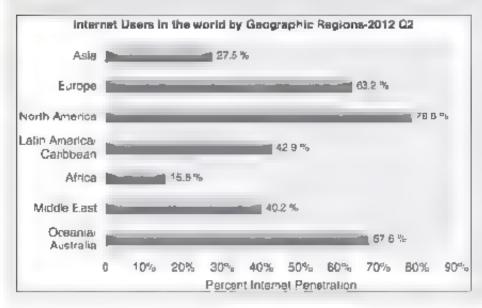


Figure B14.1 Internet penetration by world region. Source: http:// www.internetworldstats.com/ stats.htm

Vance's model of urban development illustrates much of the process whereby today's third world cities were established during the cotonial period. Cates were established in order to finnel materials to the colonizers. For example, Robert Potter and Sally Lloyd Evans (1998) demonstrate this process with regard to Barbados. By the nineteenth century the main city of Bridgetown had developed primarily to transport sugar from the island's interior plantations to European kitchens. Control of the sugar crop was based outside the tsiand, and the profits from the sugar trade flowed out as well. This economic system created a highly skewed urban pattern with most urban growth occurring along the western coast (Figure 14.7). Later, several of these

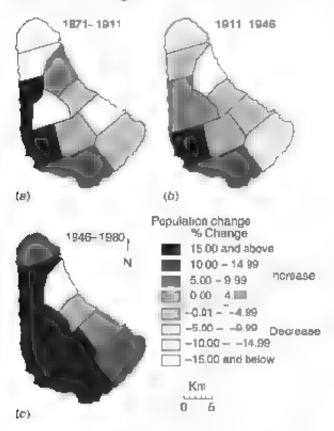


Figure 14.7 Barbados did not develop evenly, as this map indicates. From 1871 anni 1946, clearly the higher levels of growth have occurred on the western side of the island, while the eastern side tost population. Since 1946, there has been some growth on the eastern side, but the western side of the island remains dominant. Source Poster Robert B., 1985, p. 241

coastal cities emerged as market centers in their own right, primarily for products manufactured in the metropole. Colonial cities were almost never centers of industrial production, a role that they had to develop after independence

Politically, colonial cities were established as administrative centers that represented impenal power on colonial soil. The nature of the colonial impress varied depending on whether the city was new or had existed prior to colonization. (We discuss this in further detail in Chapter 15). In any event, large, impressive structures were built, including the main government offices, business headquarters, and perhaps the colonial governor's palace (Figure 14.8). Likewise, European-type neighborhoods were established that generally excluded the indigenous population.

The general patterns of colonialism admitted wide variations in local development, which we will discuss later in this chapter when we focus more on urban development within different regions. The underlying economic principles, however, were remarkably similar throughout the colonial world, and they produced an alban system that was skewed toward the West. As Stella Lowder (1986) remarks, "Settlements were bases from which the extraction of minerals, eash crops, or the railroad conveying them, or the ports exporting them could be overseen; they



Figure 14.8 Many third world cities, like this photograph of Nairobi shows, display the Impress of colonialism. O der colonial buildings are found in the foreground here

were promoted strictly in relation to their function in expediting production or in the administration enhancing it" (p. 82). In addition to the main porticity (often the administrative capital of the whole colony), secondary cities in the interfer were built up where there was a concentration of resources, or at the ends of railroads, or at a strategic fork in the river. For example, the early city of San Luis Potosí in Bolivia was built next to a silver mine, and it reached its apex around 1000. The Indian city of Delh, was enhanced by its position along the Ganges River. In Arrica, interior cities like Nairobi Lasaka, and Elizabethville represented imperial forays into the interior.

Economic Disparity Following national independence, colonialism was replaced by a relationship termed neocolonialism, in which the ex-colonial economy continued to provide raw materials to the former metropole. This relationship indicated a continued dependency on the former colonial power. According to some scholars, most notably Andre Gunder Frank (1969), the terms of trade between satellite and metropole were such that the satellae country continued to focus on primary products for export. In return they might import manufactured products.

This system worked to the disadvantage of the satellite because manufactured products are far more valuable than primary products in that manufacturing helps to create a dynamic, balanced economy that generates a tremendous amount of profit. In contrast, the production or extraction of primary materials might enrich the few families who own the land or the mine, but it leaves most of the population in abject poverty. The continued concentration of an economy on producing primary materials, termed a commodity export economy, also does very attle for the satellite country's stability Rather, the satellite becomes who, we dependent on outside demand for the main export commodity (over which it has no control), and it is forced to import most manufactured products (Figure 14.9). This continued relationship between a third world that produces raw materials and an industrialized first world does nothing to foster economic development in poorer countries. It is what Frank termed the "development of underdevelopment."

Early dependency theores were later recast in terms of a world system composed of core, periphery, and semiperiphery regions. The core refers to those areas of the world that control the economic capital essential to economic development. Core countries are characterized by a concentration of economic power a diversified economic base, relatively high incomes, and greater economic, social, and political stability. The periphery refers to areas that are economically dependent on the core. Peripheral countries are characterized by a general lack of economic power, an economic base that produces just a few commodities (commodity export economies). incomes that are very low and very unequally distributed, and enormous price fluctuations, Small changes in the core can produce vast changes in the periphery. As a consequence, core countries experience only a tempous social and political stability

The semiperiphery is an intermediate category that lends a bit more sophistication to later dependency theory. Not every country fits nearly into the categories of core or periphery. Many of the countries we consider "developing," for example, Brazil Mexico, and India, export primarily manafactured products. Other countnes, such as the East Asian "tiger economies" of South Korea, Singapore, Taiwan, and Hong Kong, have achieved fairly high incomes. Thus, many countries he somewhere between the core and the periphery. The semiperiphery countries are striving to get out of the dependency trup, and their economic profiles are far more oriented toward manufactured products. These countries have accrued indigenous economic capital, although many have accumulated deep external debts in their desire to deve op. Compared to peripheral countries, they are characterized more by medium incomes, and they have a more developed middle class. Some, but not all, semiperipheral countries have employed measures, such as steep (mport taxes) and onerous quotas, to protect their native industries. In contrast, core countries are too powerful and peripheral countries too dependent to resort to these

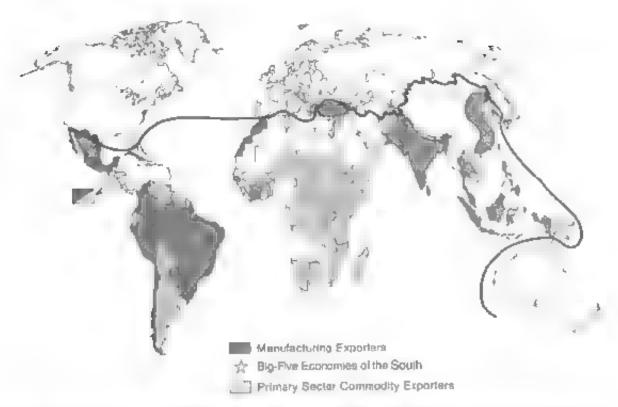


Figure 14.9 Some countries in he covering world have indestinated and export manufactured goods. Among these countries are Mexica. Record bades and China Other countries continue to export primary sector products—agricultural items, forestry goods, and minerals. Source: Authors

measures, at least not to the same degree, although protectionist impulses are found everywhere

The processes of colonialism and dependency that we have just discussed clearly have had an impact on the development of cities. In a country with a purely peripheral economy based on the export of raw materials, clies develop unevenly. Beginning with the main port city, the urban system operates as a series of conduits through which to funnel goods from the interior to the world market. Within the primate city are the country's elife, or national bourgeoisie. Under the constraints of a global economie system, national clites, always a minuscule proportion of the population) control the national economy and focus it around their own interests. Over time, secondary cities emerge with their own "regional" bourgeoiste who exercise considerable regional influence. In this situation, formerly colonial the former colony and the former colonizer, and they function in much the same way as they did prior to independence. In the early stages of independence, haropeans continue to live within their restricted settlements and to manage many aspects of the neocolonial economy. Later, native eates are able to gain control over a larger share of the nation's resources. The socioeconomic disparities do not alter that much, however, because a tiny group of wealthy elite holds economic sway over an impovement majority

With time, political pressure and the desire for greater economic autonomy after many of the starker neocolomal arrangements. Although several less developed countries continue to be disproportionately involved in primary products and although the urban structure reflects this, what really drives

urban growth is the uneven development that persists within the countries themselves.

Urban Bias Urbanization is a consequence of economic development. In the absence of industrialization, there is no motivation for large-scale urban growth. An economy developed solely for the demands of extraction can accommodate only a truy percentage of its population within cities, and it is for this reason that third world cities remained so small up until the 1960s. When the economics attempted to industrialize, then large-scale arban growth could begin.

Many scholars, however, claim that urban growth tends to reinforce existing divisions within a country. They argue that the global relations that typify colonies and later independent but economically dependent nations divide a country into (1) an export oriented region that, although still poor by the standards of the developed world, is wealthy relative to the rest of the country and (2) a traditional, subsistence oneated region that does not participate in economic growth. Most urban development, population growth, and capital investment are concentrated within the first region.

The urban bias goes beyond this, however as explained by Josef Gug, or The decision-making elite within third world countries live in the main cities. The urban bias argument suggests that they are far more concerned with the well-being of urbanites and of the cities they inhabit than they are with roral areas. As a consequence, the overwhelming majority of capital avestment, public spending, and high-quality labor its found within the cities.

Agricultura production and rural manufacture are foregone in favor of urban production because of urban bias in investment, in favor of urban unemployment and underemployment because urban earnings are high relative to rural, and in favor of services provided to satisfy every whim of an urban-based minority that indulges in the conspicuous consumption of services. (Gugler, 1993, p. 24)

Part of this focus on cities—above and beyond the economic incentives that cities generate on their own—may explain why third world cities tend to have healthier, better educated, and more prosperous populations than do rural areas

Armstrong and McGee (1985) applied the model of urban bias to Ecuador For most of its history Ecuador was involved in the production of cocoa, coffee, and barnings. Consequently the country had a classic export economy that focused around the main port city of Guayagu I, The commercial and financial elites of the country I ved there, and the branch offices of foreign companies were located there. Since the 1970s, a great deal of oil has been extracted near the capital of Quito, which has begun to catch up to Guayaquil as a major economic and population ceaser. Within this binary system-where the two largest cities overshadow the remainder of the urbanstructure—the focus of investment is clearly in Outoand Guayagu... Modernization is focused around these two cities. They attract almost all of the capital. investment, and the headquarters of national and foreign banks and most new industrial production. are located there

Regional centers in Ecuador, although smaller and less prosperous, are showing signs of progress. For instance, Cuenca in southera Ecuador is an old colonial city that began to acquire some trappings of modern production and has the industrial sectors, the newer suburbs, and the surrounding shanty towns to show for it. By contrast, the rural areas, especially those that do not participate in the cash crop or petroleum extraction economy, are left far behind. The lack of investment in rural areas compared to arban areas can be seen in these statistics from 1974. Nearly 90 percent of housing in rural areas had no electricity or sewer service, whereas in urban areas the figure was closer to 16 percent (Armstrong and McGee, 1985).

The fact that new industrial activity is focused around cities is not by itself evidence of a true urban bias. Cities attract development for several sound economic reasons, There is a long legacy in places like the United Kingdom and Japan of urban areas

being in the vanguard of national economic growth. Greater opportunities in urban areas are what enticed greater capital investment as well as more labor migration to the cities, hastening the process of urbanization. What makes less developed countries different are the political impacts of this urban bias, which may result in diverting public resources away from the countryside and into the cities. Certainly, less developed countries display gaps in the health of urban and rural residents, with rural residents suffering higher infant mortality rates.

Urban bias as such is hard to measure. Any possible bias would be made up of myriad governmental decisions, and it is difficult to know whether budget allocations that seem to favor cities at the expense of rural areas represent impartial policy decisions or blatani favorulism. One index, which measures the imbalance in government allocations between the farming sector and manufacturing and commercial sectors, suggests that the poorest countries in the world tend to have the greatest disparities between these economic sectors. Again, intentionality cannot be measured here, and the emphasis on more advanced economic activity could be viewed as a rational altempt by poor nations to develop

Characteristics of Third World Cities

The previous sections have examined third world cities in light of their growth and their connection to larger currents of development. But what are the characteristics of the cries themselves? How similar are they to cities in North America, Europe, and Japan? Is at possible to generalize about them, or must we consider each region independently? Of course each city has developed under a unique set of circumstances, from its indigenous mots, to its colonial roles (if colonialism was present), to its twentieth-century development and position with the modern state. Moreover what we think of as "third world" or "less developed" cities encompass a range of wealth and per capita purchasing power from about \$20,000 a year to about a dollar a day. Nonetheless, some

chazenges are faced by all of these cities that help to set them apart and that create a unique urban character

Many of the challenges faced by third world cities revolve around the fact, hat they are unable to accommodate their massive growth. Third world cities suffer from their own popularity, and in this regard they bear some resemblance to the fast growing cities. in the developed world. But richer cities usually have enough jobs-rapid population growth is usually spurred by a heightened demand for workers—and they have the wherewishal to build enough nousing and to provide adequate services, leading to the expanses of newly constructed subdivisions seen in almost every American boomtown. These options are not available in third world rities. Village dwellers migrate to the big cities in search of opportunity, but they encounter enormous difficulties in finding regular, full-time, paid work. As we discuss later they must resort to other approaches in order to eke out a living. I kewise, neither the commerciaprivate sector nor the already strapped public sector in such cities can possibly build enough housing for the new arrivals, especially because what we consider established housing is affordable for only a small fraction of the populace. Hossing and jobs, therefore, are the chief challenges faced by third world cities, accompanied in some cases by ethnic conflicts and governmental corruption.

Effects of Growth

In his introduction to In the Cities of the South, Jeremy Seabrook (1996) points to the paradox of the third world city. On the one hand, we look at such urban explosions with horror, According to Seabrook, "'population' is a metaphor for uncontainability, the inadequacy of civil services, the breakdown of law and order." Cities are thus metaphorically linked to natural disasters. On the other hand, we can view these cities as places of renewal, "to applicate the courage and endurance of people in the slums, to admire and wonder at their capacity for adapting, for building their own shelters, for creating a life for themselves, for finding

a livelihood somewhere in the city economy." As was true of all cities throughout history, third world cities grow for a reason. People are seeking a better life. In the process, they swell the physical and civil infrastructure beyond the breaking point. As a result, third world cities exhibit high levels of problems and pathologies, such as poverty, pollition, crime, and madequate housing.

Consider the negative effects of rapid growth among some communities in the United States overcrowded schools, pollution, traffic congestion, madequate fire protection, and perhaps high crime rates. Cities in the less developed world normally have to deal with far greater growth, with few of the assets available to richer cities. More people come in than scarce resources can accommodate, forcing the city to stretch far beyond its capacity. The density of such cities can be staggering. In Cairo, for example, population densities approach 300,000 people per square nule—four times that of Manhattan, but with many fewer high-rise buildings. In such environs, housing is so tight that people actually occupy tombs.

Third world cities must contend with a problem of providing busic services, expecially water, sew ers, waste collection, and electricity. In North American and European cities, virtually every household, even in slum areas, has some source of electricity and water and some type of sewer system. Unfortunately, is you can see from Table 14.2, this is not true in third world cities. For example, in the large Indian cities of Mumbai (Bombay), Delhi, and Madras, only one-shord to a attle more than one half of the households are connected to sewer and water systems, and only three-quarters have access to electricity. In most African cities less than one-third of households have access to sewers, and less than one-half are connected to water and electricity. The situation in Latin America is a bit better, but a large proportion of the population remains unserviced. Given the geography of service provision, the districts containing informal housing and especially squatter housing are much more likely to go without services. Slim municipal budgets have enough trouble servicing long-standing neighborhoods. They cannot possibly provide newly

Table 14.2 Service Availability Urban Households Connected to Utilities

City	Country	Water (%)	Sewer (%)	Electric (%)
Luanda	Angola	4.	13	- 0
Ouagadougou	Burkona Paso	32	CI CI	35
Donaln	Cameroon	19	3	42
Kinshasa	Congo	50	3	40
Addis Ababa	Ethopia	58	a	96
Narobi	Kenya	78	35	40
Lagos	Nigeria	65	2	100
Dakar	Senegal	41	25	64
San Sarvador	El Salvador	86	80	98
Rio de Janeiro	Brazil	95	87	100
Bogota	Colombia	99	99	99
Sanhago	Chile	98	92	94
Lamo	Peru	70	69	76
Bombay	India	55	51	90
Delhi	India	57	40	70
Jakarto	Indonesia.	15	0	99
Lahore	Pakistan	84	74	97
Manda	Philippines	95	80	705

Source World Resources 1998-1999 A Guide to the Global Environment, New York, Oxford University Press.

urbanized districts with water, sewers, electricity, and roads, and they are reluctant to extend services to areas that are illegally occupied to begin with.

Another effect of this tremendous population growth as pollution. The average urban durd world resident consumes and wastes far fewer resources than residents of richer nations. For instance, per capita emission of carbon dioxide in the United States was about 20 metric tons in 2010, while Japan and wealthy European countries ranged between 5 and 13 metric tons. By contrast, the average carbon dioxide emission for African countries average under I metric ton, and for Asian and South American countries it was generally under 5 metric tons. However, poor cities are unable to employ the new and expensive technologies that can filter emissions in the air and dirty discharges in the water. Other air pollution indicators suggest that industrialization has exacted many atmospheric costs. Both Teheran, fran and Delhi, India report from four to five times as much particulate matter as Los Angeles. Mexico City has long been a poster child for problems of smog and air pollution. Here, the effects of smog and pollution have been estimated to be equivalent to the effects of smoking two packs of eigarettes a day, killing some 100,000 people a year.

Compounding the problem of air pollution is the lack of sufficient waste disposal. Only half of the dwellings in the third world are connected to sewers, and the vast majority of these dwellings churn out untroated sludge and human excrement. Cities are a little better (about 74 percent access), but still have problems dealing with all of the excess waste. In Bangkok, for example, human waste is thrown into storm drams, cesspools, and septic tanks. In such cases, groundwater is severely pelluted, and rivers and canals are turned into open sewers. The disposal of comses in the Ganges River in northern India has become such a major hazard to health that the government has resorted to breeding turtles that will eat the hodies. In most third world cities the steach of raw sewage indicates the presence of disease-causing organisms

Housing

The lack of adequate housing is the first thing that visitors to a poor city notice. The ride from the airport often passes through acres of shanties. Along city streets, makeshift dwellings perch, occupying what ever space is opened to them. The downtown itself is usually occupied by thousands of homeless people, who are called pavement dwellers in Indian cities because they sleep on the sidewalks (Figure 14.10). The lack of decent housing affects a huge propor tion of the population in poor cities, perhaps as many as 50 percent of all urban dwellers. According to the World Bank's 2006 World Development Indica. tors, only 20 percent of city dwellers in Mozambique, 23 percent of urban Ethiopians, and 42 percent of urban Bangladeshis live in "durable dwelling units." In Madras, India, about 6,000 legal housing units are built each year, but at least 30,000 new units are

needed. Here as elsewhere, suppry is but a fraction of demand. The World Bank (2000) estimated that in the 1980s within third world cities, only one housing unit was constructed for every nine households in need of a dwelling.

In addition to coping with severe housing short ages, third world cities must address the diverse housing needs of different categories of urban migrants. On the one hand, large numbers of families migrate into cities, hoping to reestablish themselves there These people are looking for permanent housing. On the other hand, many people come to cities on a more temporary basis. Young men frequently come to look for work with the intention of returning home to their village once they have made enough money. They will use their wages to buy housing in their visiage rather than in the city. Other people come as temporary sojourners, entering and exiting cities on a seasona, basis. The housing needs of these various groups will be substantially different. The provision of housing in third world cities is taken up by severad fferent sectors. These can be loosely categorized as the public sector, the commercial private sector, and salf help housing.

Public-Sector Housing Public-sector housing

is constructed by the government for its critzens, sometimes at a cost to the resident, but often subsiuzed. In the former Soviet Union and in Eastern Europe, this sort of housing comprised a large share of the overall market. It has also been tried to several third world cities, although it represents a relatively small proportion of the total housing stock. Up until the early 1970s, much of the public housing conformed to relatively high standards, following design principles (in regard to materials, space, and services). that better stitted and fle-class incomes. This made these anits expensive to build. For instance, one-half of the population in Rabat, Morocco, was unable to afford public housing in the 1970s. Other cities faced similar difficulties, meaning that the public housing had to be generously subsidized. Even then, it was not affordable for the poorest residents.



Figure 14.10. Common scenes from cities imjess developed countries, tall is taken in the Coptic sections of Carro. bit is a shootytown on the fringes of Lima (c) Shows shacks in literature and id) depicts sure housing in De bit.

In constructing public housing, many countries followed the lead of the industrialized world in developing large housing estates, often located far from existing jobs and businesses. This construction has

to seven-story "H" blocks were constructed during the 1950s and made cheap by the provision of common facilities, the allocation of manuscule amounts

of space, and densities that topped 2,000 people per acre Construction in the 1960s was more generous, perhaps reflecting Hong Kong's growing wealth. In Caracas, Venezueia, the government destroyed existing slum properties and Jirew up hastily constructed superblocks that contained about 16,000 apartments (Figure 14.11). Although these dwellings were fairly comfortable in comparison to much of the existing housing, they were poorly maintained and offered few social amendies. As a result, the superblock neighborhoods greatly deteriorated. The unsuitability of such housing for poor residents in Rio de Janeiro was demonstrated by the propensity of some beneficiaries to vacate nice, government-built housing because it was too far from job opportunities.

Of course, some countries have tried to build entire communities. One approach practiced by several countries has been to divert some of the population into satellite cities, where population pressures are less severe and land is more available. New town creation emerged as a big component of public housing, often with a mixture of public and private monies (Box 14-3)

Although the efforts are laudable, public housing has generally been able to accommodate only a very small proportion of the population. Cost is an issue

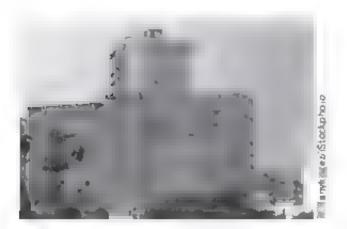


Figure 14.11 In the 1970s, the Venezuelan government constructed a set of giant apartment blocks, known as superblocks

of course, as is the fact that the government budget simply is not large enough to subsidize every new housing unit. An additional issue is that, paradoxscally, a lot of the new public housing is reserved for relatively well off people. This began after independence in many countries, as the new administrative elite occupied housing once owned by European colonialists. Even within new public housing, however, governments often offer special deals to wealthier residents. In Lagos, for example, the upper-level bureaucrats live in subsidized public housing even though they are among the minority who could afford housing in the private commercial sector. In others cases, governments use some of their housing budget to try to entice their staff to relocate from the large cities to a new city designated as an administrative center

One strategy that has succeeded in some cities involves housing established by work units. These are categories of people established according to where they work, for instance, a factory, a government bureau, or a store. This type of housing can be public or private, depending on the status of the workplace. It has been most undely practiced in China, where until recently all work units were state owned. In Beijing, for example, about 9) multion square meters of residential floor area were constructed between 1949 and 1991, increasing the city's housing supply almost eight-fold. From 1991 until 2011, the amount of floor space has doubled yet again, (Figure .4.12). Much of that housing was constructed through various work units that involved industries, government bureaus, and universities. An article from the official Chinese press stated that about 18 million square meters of housing were constructed in 2000. Although much of the housing would be considered cramped by Western standards-in one city (Jinan) per capitaliving space in 2000 was only 10.5 square meters, or about 110 square feet-it still represents tremendous advances both in the supply and the quality of housing (see Box 15.4 in the next chapter). In fact, it is nearly triple the per capita living space from the 1970s.

BOX 14.3 CARRO'S NEW TOWNS

Like other developing societies, Egypt has undergone rapid urbanization, much of it focused on Cairo, the largest city in Africa. Egypt experiences special difficulties as well, in that the population is confined to the land bordering the Nile River. The press of people has created huge difficulties for Cairo. People live in graveyards and rooftops, orban services me woefully deficient, mu unemployment is high. Cairo s City of the Dead, made up of several million Cairones who live in the vast cometeries that ring the eastern side of the city, is evidence of how people have sought housing in the most unlikely places.

One proposed solution to these problems has been the construction of new towns, a program that began in 1969. In implement og this program, the Egyphan government looked to the Garden City program of Britain and also at adempts by many countries to redirect population away from densely populated areas. The decision was made to build several new cities that were distributed throughout Egypt, but were more focused on the greater Cairo area. These cities, 14 in number as of 1996, were friended to support same consulations of between 100,000 and 500,000. people. They were also meant to serve different economic. toles. Some were intended as centers of industry. Others: were supposed to help decentralize agricultural marketing. Still others were supposed to belp in the reclamation of agricultural land from the desert. To promote these cities, the government provided a variety of incentives, including tax breaks, free or low cost and, and the relocating of some governmental functions, especially to Sadat City. All of the new cytics were constructed on a massive scale, with a modemistic, concrete-intensive style (Figure B14.2)

Have these cities performed their function? According to geographer Donn Stewart (1996), who studied these cities, the results have been mixed. On the positive side, the cities have succeeded in altracting businesses, thanks to the lower costs of doing land and other necessities. This is especially true of those new towns located closest to Cairo. However, they have failed to attract the needed residents. People in Egypt simply cannot afford to live that far away from their jobs, because most rack access to private transportation. Egyption firms have often provided the necessary transportation for the workers themselves, but have but provided it for the families of these workers. But with Cairo's

explosive growth, the arbanized area eventually caught up to the new towns. The most recent data indicates that since 1996, there has been a fair amount of growth outside of Cairo. In fact, the more central parts of the greater Cairo area accounted for only 19 percent of the overall growth. Those outside districts, where the new towns are located, accounted for the remainder.

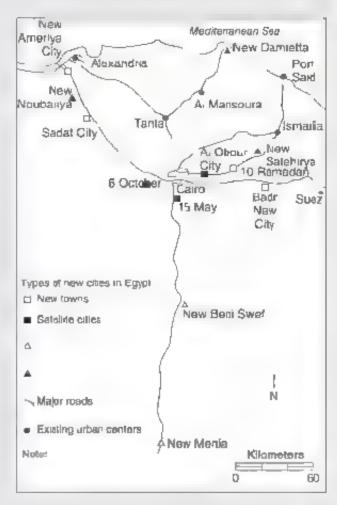


Figure B14.2 The location of Egypt's new towns. Source Sewart, Dona J., 1996

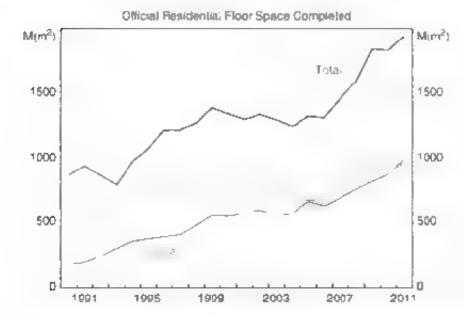


Figure 14.12 Official residential floor space completed in China. Source: http:// www.rba.gov.au/publications/rdp/2012/ pdf/rdp2012-04 pdf

Commercial Private-Sector Housing Housing built for profit by a construction company or a private contractor falls under the category of commercial bousing. Most of the housing in North America is commercial housing. This is not true in most less developed cities, however, due primarily to the high costs associated with this kind of housing. In less developed countries the commercial private sector may have the capacity to build new housing, but few new residents can afford these houses. According to a recent report by UN-Habitat (2008), while housing prices are four times average accomes in the developed world, they are about six times income in Latin America, 7 to 10 times income in Asia, and over ten tinses income in Africa.

There are four principal reasons why commercial housing is so expensive in these countries First, land costs are quite high. The land market is complicated and often uncertain, because ownership rights are often unclear and even harder to establish on paper. The supply of land may be limited, especially when land is held publicly or must be assembled from numerous smallholdings. All of these factors contribute to the high price of land. Many families must work several years just to afford the land itself, helping to explain why so many people must either rent or build shelter on land they do not own.

Second, building costs are high. Most housing construction in third world class still mandates the use of expensive domble materials (cement brack) steel, and concrete) that may be in short supply locally. The difficulty to procuring these supplies adds to their cost. Third, access to credit can be difficult. Consider how few houses or even apartments would be built even in developed countries if there were no established lending institutions. This is the situation in many third world cities, which find themselves bereft of the financial infrastructure needed to provide loans to bunders and potential customers. An estimate from the 1980s indicated that fewer than 10 percent of al. housing transactions involved mort gages, and the tightness of credit all around squeezed the housing market. More recent estimates suggest much the same thing-mortgage finance is difficult to acquire in many cities in the less developed world. To give one example from Peru, only 1.3 percent of all title deeds were obtained with the help of mortgage loans (UN Habitat 2008). Ironically, some developing countries have experimented in affering low interest loans—below market rates. But like the public housing mentioned above, many of these loans went to the most privileged groups. Thus, even when financing becomes available, it often comes loaded with restrictions and stipulations that place it out of reach for all but the chie. The age of mass-market, middle-class housing has yet to dawn in less develaped countries.

Fourth, most construction is driven by the elite It is intended for the wealthiest classes—either residents of the city or visitors. Many third world cities have witnessed an explosion in "big licket" construction. For example, Koala Lumpur, is Mataysia, now boasts the two tallest buildings in the world, and other cities have rushed to build up their skylines. Expensive hotels and luxury apartments have also become commonplace in the largest cities. These projects tend to all the construction sector away from the housing demands of middle- and low-meomefamilies.

Self-Help Housing Because assistance from the private and public sectors is inadequate, the need for housing must be met in other ways. Outright homesesness is a common phenomenon, but most urban residents attempt to better their lives through self-help housing. The term refers to housing that is constructed informally by the residents themselves, rather than through private contractors or by the goverament. It is also referred to as self-built housing. This term cannot be compared to the custom housing built by many middle-class and affluent consumers. in the United States. In third world cities, self-help housing is a strategy of the very poor, who seek to provide themselves with some shelter. Consequently, it constitutes a huge percentage of the total housing inthese places. In India, for instance, between one-thirdand one half of all urban residents live in housing constructed by themselves and their friends.

The primary advantage of self-help housing is its lower cost. According to one estimate, it costs at most one fourth as much to build this type of housing as it would to construct a comparable unit in the public sector. Why does self-help housing cost so attle? One reason is that the residents undertake all of the labor themselves and therefore do not have to use relatively highly paid professionals (architects. engineers, and contractors) or even skilled laborers. In addition, there is no formal design. But the most important reason may be the use of inexpensive building materias that are available locally. Many of these materials in fact are waste products from other construction projects

A second advantage of self-help housing is apgradeability. Many units are constructed fairly simply but allow for a gradual improvement in the quality of building materials over time. In addition, they can be expanded if there is enough land

The major disadvantage of self-help bousing, beyond its possible inadequacies, is its uncertain legal status. Most setf-heap or self-built housing can also be considered unauthorized housing. The term squatter settlement has become widely used to describe the third world urban condition. Squatter settlements are built by residents who occupy land to which they have no legal claim. Most cities have nearby areas in which the vacant land is occupied by squatters. Sometimes this land is useless for almost anything. Land attrated along river banks or railroad lines or right next to dumps, although undesirable to commercial builders, can be enormously useful to potential residents (Figure 14,13). Likewise, unused. plots of land in the inner city may be held for specalative reasons or because these are subject to some kind of property of inheritance dispute. These lands become very desirable to squatters.

Many of the enormous squatter settlements found in so many third world cities occupy peripheral land that belongs to the government. This type of land seizure results quate often in permanent settlements. The quantity of such land allows for the gradual development of real communities. The names of such settlements vary by city favelas in Brazil, shanty towns in English-speaking Africa, bidomilles in French West Africa, colonias popolares in Mexico. City, kampungs in Indonesia, barriadas in Peni. Government ownership of this land also makes it more likely that the squatter population will not be evicted. This is especially true when the squatters are

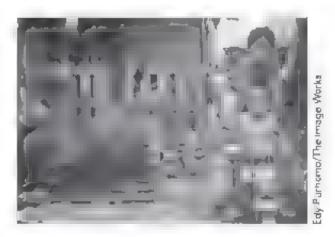


Figure 14.13 Squatter housing in northern Jakarta along some of the canals. Refuse fills the canaas, but the and is not privately owned and, therefore, is available for settlement.

organized and when they occupy the area quickly in a coordinated fashion.

Actual illegal squatting, although widespread, is less common than other forms of unauthorized housing. Many times, the owners of the land that is occupied by residents are aware of the settlements and see them as a way to collect rental meome from rands that would otherwise be left idle. Much of the time. these settlements are unauthorized because they violate various zoning codes: they violate lot lines, they are not built with stable materials, they promote fire hazards, and they are not supplied with water and sewer lines. The landowner and the residents often have a mutual interest in flouting the laws

The quality of self-help housing varies tremendously. Most of the initial housing constructed is abysmal, with a life span of less than five years. But given time, many kuch settlements can show fremendous improvement. This process is sometimes referred to as autodevelopment, in which individhas work to improve their own housing conditions. A study by Richard Ulack (1978) demonstrated how the quality of the squatter settlement was tied largely to its tenure. Those settlements that had been allowed to remain for several years-and thus had transformed into established neighborhoods-were able to autodevelop into stable, working class commurities. New settlements, or settlements that were under constant threat of demolition, remained at a very low level of livability

Increasingly, governments in less developed countries have come to realize that self-help housing is here to stay and that it can offer at least a partial solution to the housing crisis. In many cities, with the assistance of the United Nations and the World Bank, there has been a general shift away from government sponsored public housing to assisted self help housing, denoting a change from a top-down policy to an enabling policy. The enabling approach exists to funnel housing assistance through community-based organizations, groups that are operated for and by members of the community. In this manner, residents are given a greater stake in their housing and more control over the best means. of providing housing. The enabling approach is thus a variant of self help housing, but one that involves the larger community. The money need not come from the government, in fact, it is often financed by outside organizations or governments.

Many city and national governments have embraced two approaches related to self-help housing. One approach has been to promote the upgrading of existing housing, largely by focusing on providing water, sewers, electricity, and roads. For example, in Jakarta, Indonesia, the Kampung Improvement Program improves the infrastructure of roads and utilities and builds up some of the social welfare facilities. A second approach is to establish sites ahead of time and provide them with necessary services and perhaps the rudiments of a shelter. This approach, known as the sites-and-services approach, has met with some success. For example, in Naurobi, Kenya, the city government provided 6,000 smal. tota connected to water sources, sewers, roads, and ghting attaities. Each lot contained at least a toilet or so-called "wet core" In these endeavors, the government is viewed as an enabler of self-help housing. The government made these lots available at no or low cost to people who then built their own housing

Employment Opportunities and the Informal Sector

Despite conditions that are appalling to Western eyes, the reason why many cities in the less developed world are growing so rapidly is the perception among migrants that cities are places of hope, of opportumity Significantly, rural migrants have been falsely portrayed as desperate villagers who come to the city after having failed miserably in the countryside. In fact, the opposite is true. Those who migrate to the cities are among the best off of the peasantry. They tend to come from wealthier parts of the country, to be better educated, and to have had some expenence in nonagricultural occupations. These are the sorts of people who would have some knowledge of jobs. in the cities and some extra money to finance their journey

In a balanced urban hierarchy, many of these people would migrate to smaller cities. That is the hope and expectation of many urban planners. As we have seen, however, it is the huge primate cities that exert the greatest magnetic pull. Unfortunately, although many jobs have been created in both the public and private sectors, most third world cities have not generated the necessary agglomeration economies to absorb anywhere near all of the newcomers. For example, in the 1980s, some researchers estimated that I billion new jobs would have to be created worldwide between 1985 and 2000-primarily in less developed countries-to bring about full employment. This did not happen.

The dispanty between the growth of good jobs. and the population influx has had several consequences. One consequence is that many third world countries have a very small middle class. As a result several such countries suffer from a high degree of ancome inequality. The United Nations Development Programme (2007/2008) has compiled dain on the ratio of the incomes of the wealthiest 20 percent to the poorest 20 percent in each country. In each industrialized country, the ratio is less than 10:1. In contrast, in the industrializing middle-income counlines, especially in Latin America, ratios are higher. with most exceeding RE [and with several exceeding

15.1 ratios. Brazil is the global champion of inequality, with a ratio of about 22:1. The results can be witnessed in some of its biggest cities. In Rio de Janeuro, for instance, income inequality is manifested. spatially, with almost one-half the population living in pemphera, areas and earning less than \$1.50 a day per capita (Figure 14.14). Indeed during the 1980s. the poorest half of the population in Rio saw their share of overall income diminish. In both R.o de Janeiro and São Paulo, mequality further increased between 1990 and 2000 according to data compiled by Portes and Roberts (2004).

This income inequality is reflected in the labor market. Samply put, there are not enough regular jobs. for all of the people who want them. This means that many cities in less developed countries are split il to two sectors. (1) it more formal sector, where the regular, wage-earning jobs are found and (2) an informal sector, where self-employment in a variety of peripheral occupations is often the rule

Formal Sector The formal sector is made up of those jobs, either in government or private concerns, that provide a reasonably steady wage. The formal sector consists of the large industries, services, and the government, which employ those workers privileged enough to find a steady, permanent job. It also includes firms that employ people on a more temporary basis

The number of people who actually find reasonable paying jobs in these new industries is a smallproportion of the total adult working population (sometimes no more than one-third). For example, Portes and Roberts (2004) report that Latin Amertean etties suffer from formas unemployment rates of up to 20 percent but that the overall level of labor. vicinembility—constituting unskilled self-employed workers, unemployed workers, and workers without any government or legal protection—is as high as 50. percent. Workers in the formal sector usually started off with some advanages, such as academic credentials, greater wealth, or the good luck of knowing somebody with influence. Or they got their jobs through political patronage, Besides the elite, they

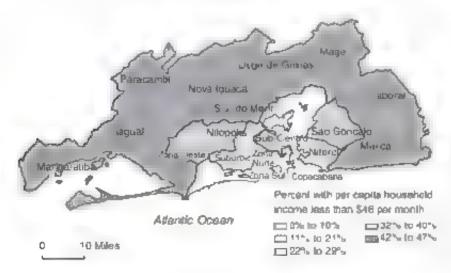


Figure 14.14 Poverty in Rin de Janeiro, Brazil, 1990. This map indicates that poverty in Rio de Janeiro is found further away from the coast and central city and out in the more peripheral neighborhoods. Source: Ribeiro, Liaz Cesar de Queiroz and Edward E. Telles, 2000

are the only people who earn any significant income. This restricts the demand for the products they produce, because not enough people can afford them.

Formal sector employment in poor continues today is likely to be a consequence of corporate shifting and the outsourcing of labor-intensive jobs from countries like the United States, where wages and benefits are high, to countries like Thailand and China, where these costs are quite tow. The sweatshaps have narved from the first to the third world, and it is in these factories that people may earn only a few dollars a day for unskilled or semiskilled work. But it is important to keep in mind that although such conditions seem hornific to our point of view, they represent opportunity to those doing the work.

Informal Sector Because the industrial labor market is never in a position to employ more than a fraction of the urban workforce and the government cannot fill the gap, people are forced to eke out a living in some other way. For some people, returning to the village is an option, but most do not choose this path. They opt instead to find work within the informal sector.

The informal sector is hard to define According to Potter and Lloyd Evans (1998), the informal sector "refers to unaccountable and unregistered activities" (p. 172). The informal sector also means different things. It "encompasses wealth and poverty,

productivity and inefficiency, exploitation and liberation" (p. 177). Informal sector jobs exist on the margins, but they make up much if not most of the employment in third world cities and therefore are very visible. (Although informal sector activities also are found in industrial cities, particularly in the inner city, they affect a very small percentage of people and so are not nearly as visible.)

A targe variety of jobs fall into the informal sector (Table 14.3) Activities include retail distribution, particularly food, fresh water, newspapers, and jewelry, artisans who produce small stems for household use, small garden farming, personal services such as faundries, repair shops, and gambling services; and, of course, scavenging and begging. In Havana, Cuba, some people clean and refurbish automotive spark plugs—an important task in a country in which every mechanical item is carefully preserved. What unites these diverse occupations? They do not require any special credentials to gain access, and these jobs can be conducted without a large capital investment.

The biggest advantage of the informal sector is that entrance is not restricted on the basis of education or skill qualifications, in contrast to the formal sector, where entry can be quite difficult. Another advantage is that the informal sector relies on family resources and self-enterprise; in fact, it makes use of all members of the household to generate an income Informal enterprises usually work "under the table" and

Table 14.3 Variety of Informal Sector Jobs

Agricultural Activities

Market gardening

Urban farming

Manufacturing and Construction Activities

Food processing and home production of het food

Gapments.

Crofts.

Jewelry and trinkets

Shoes

Household goods

Electrical and mechanical items

Alcohol production

Construction

Trading Activities

Street corner sales

Vending

Newspaper bawking

Services

Lanndry

Domestic services

Hardware repair

Driving

Odd jobs

Maintenance and gardening

Other Activities

Begging

Protection

Llegal activities (e.g., drugs)

Source Derived supart Iron Potter Robert and Sally Linyal Evans. 998. p. 73

are unregulated. They are also conducted on a small scale and make intensive use of labor as opposed to formal sector work, which tends to be more capital. intensive.

We must be careful with these broad distinctions. however. Although the informal sector represents an option for those who cannot enter the formal sector, burners do sometimes exist that restrict employment. For instance, retail hawkers may wish to keep their territory to themselves and will not look kindly on newcomers. Rather than perceiving the formal and informal sectors as being separated by a rig d divide, it probably makes more sense to view them as exist ing along a continuum

The biggest disadvantage of informal sector work is that it is often very low paying and unsafe. Moreover, informal sector jobs provide no stability, and workers possess no legal rights or access to private or government benefits. Although recognition and even encouragement of the informal economy is probably a good idea given current realities, there is a thin line between an economic sector that operates as a means of escaping poverty and one that maintains a reserveforce of cheap, exploited labor

What percentage of the working population is employed in the informal sector? Although it is impossible to know this for certain, Table 14.4 presents data from the International Labor Organization, mostly for the years 2008-2010, that estimate the size of the informal sector in some major cities. Unfortunately, several of these figures may be maccurate

Attitudes toward the informal sector have changed quite a bit in recent years. At first, the informal sector was seen as a marker of backwardness that would be eradicated once the economy progressed. Workers in this sector were actually seen as failures. More recently, the idea of the informal sector has become more elaborately articulated. Rather than being viewed as an undifferentiated mass of unskil ed workers, informa, sector labor is increasingly being perceived as filling a niche in socieues without adequate formal employment. Government policy has shifted toward belping people help themselves in small-scale enterprises. It is too early to tell whether such attempts will be successful.

WRAPPING UP

Urbanization in the twenty-first century is going to be focused in the less developed world. The big cities of the past London, Tokyo, New York, Paris-are no longer growing very much. Demographically, the twenty-first century will belong to cities like Mexico City, São Paulo, Lagos, and Delhi. These cities continue to expand and, more importantly, they are located within countries where the urban population

Table 14.4 Size of the Informal Sector in Some Countries

Country	% Informal Emplement	# Informal Sector	Constra	% Informal Employment	9: Informal Sector
F CAMANA			Charles		
Argentina	49.7	32.1	Montova	15.9	7 3
Armenia	19.B	10.2	Nambra	43.9	NA.
Botivia	75.1	52.1	Nicaragua	65.7	54.4
Brazil	42.2	24.3	Pakastan	78.4	73
China	32.6	219	Panama	43 8	27.7
Cotombus	59.6	52.2	Paraguay	70.7	37.9
Costa Rica	43.6	37.0	Peru	69 9	49
Cote d'Ivore	NA.	69.7	Philippines	70.1	72.5
Dominican Republic	48.5	29.4	Russia	XA	12.1
Ecuador	60,9	37.3	Serbia	6.1	3.5
Fevpl	51.2	NA	South Africa	32.7	178
El Sulvador	66.4	53.4	Sri Lanka	62.1	50.5
Ethropia	NA	41,4	Тападина	76.2	51.7
Hooduras	73.9	59.3	Thailead	42.3	NA
India	83.6	67,5	Turkey	30.6	NA
Indonesia	72.5	60.2	Uganda	69.4	59.8
Kyrgyzstan	NA.	59.2	Ukraine	NA	9.4
Lesotho	34.9	49.1	Lineguay	39.8	33.9
Liberia	60.0	49.5	Venezuela	47.5	36.3
Macedonia.	12.6	7.6	Victoam	68.2	43.5
Madagascar	73.6	518	Wes Bank and Gaza	58.5	23.2
Mali	61.B	71.4	Zambia	6/2.5	64.6
Marritins	NA	9,3	Zimbabwe	51.6	39.6
Mexico	53.7	34.1			

Source 4LO—Department of Statistics Line 2U.2 http://laborsta.iti.org/informa.economy E.htm.

as a whole is still growing. We are already at a stage where the average urban dweller lives in the third world. This trend will continue to hold true. It also raises a paradox, because cities in the less developed world are unable to sufficiently accommodate their burgeoning populations.

This chapter has focused on some of the common issues that affect cities in the less developed world. First, it examined the phenomenon of rapid urbanization, often resulting from rapid population growth in general, rural to-urban migration, and primate cities. Second, it exam ned how third world urbanization has developed as a result of overall economic development but also because of the impacts

of colontalism and uneven development. Third, it noted some general characteristics of third world cities, especially with regard to the inadequacy of housing and employment opportunities. In this respect, we have also considered some possible solutions. Because the problems are so vast and the solutions sometimes clusive, it is easy to despair about the future of these cities. But it is also important to remember that periods of rapid urban growth within all societies have been remarkably unsettling and often chaotic. In these cases, the cities have remained as beacons of hope Over time, they have matured to become more stable and more pleasant places to live



REGIONAL VARIATIONS IN URBAN STRUCTURE AND FORM IN THE LESS DEVELOPED WORLD

(The) city is a mosaic of cultural and racial worlds each invoking the memory of other lands and people, the tree-lined ovenues of Phnom-Penh and Saigon reminiscent of Paris, the canals and stuffy buildings of old Butavia, repucas of the medieval

Dutch town; and towering skyscrapers of downtown Singapore are part of the universal Western central business district.

-T G McGss. 1967, p 25

What geographer T. G. McGee (1967) attributes to certain Southeast Asian cities could be extended to include most cities in the less developed world. As we saw in Chapter 14, most third world cities jumble together many cultural and racia, worlds. In part, these caties are legacies of a colonia, past. European imperialism and colonialism throughout the nine teenth and early twentieth centuries pervaded all but a few societies, and most of the important third world. cities today can trace their dominance to this period The McGee passage quoted above goes on to describe the magnificent cultural variety that is found within Southeast Asian cities and that is likewise true of so many cities. At the same time, however, it also focuses on the divisions among the very wealthy, the middle class, and the many, many poor. "Here the contrasts are not those of the cultural diversity of the racial worlds of the inner city, but the contrasts of wealth and squalor" (p. 25). It is this economic divide. that looms largest in most third world cities.

Many models exist of North American cities (see Chapter 7). But what of cities in the less developed world? Although we must acknowledge the tremendous variation among cities, it can six a be useful to point to some general economic, social, and spatial characteristics at least for cities within larger regions.

The previous chapter outlined some of the general factors that affect the growth and development of third world cities, as well as the issues of housing and employment, which define the living conditions within these cities. However, numerous other factors must be considered.

First, ethnicity helps to structure every city. Like their counterparts in Europe and North America, Asian, African, and Latin American cities are kaleidoscopes of diverse religions, languages, races, nationalities, and eastes that vie with one another for salience and space. In fact, it might be argued that in lands where resources are scarce, ethnicity takes on an even more important role in allocating goods, services, housing, and jobs to families. The factors causing such diversity are not the same as those applied in the West, where immigration from other countries plays the major role Rather, these major cities aften reflect the incredible diversity of the countries. India, for instance, contains almost 50 languages, a half-dozen strongly held religions, numerous nationalities, and a potent caste system. These groups come together in India's major cities

Second, the legacy of colonialism is still powerful linitial decisions regarding the layout of third world cities that were made during the colonial era have

heiped shape these cities to this day. The legal and political structures guiding these cities were often established at this time as well. The imprint of the colonial era is also found in the examples of architecture, in open spaces, and certainly in the location of elite neighborhoods. In addition, most third world cities (whether they wish to acknowledge it or not) are still tied to the former colonial powers through trade, banking, tourism, the direction of migration, and language

Third, economic development varies within countries, but even more so among countries and regions. The idea of the third world as an undifferentiated mass of poverty and despair has given way to a perception that there are several "worlds" at different stages of development. Some cales have expenenced fairly robust growth and industrial development. These cities are undergoing far different trajectories than the cities where urban population growth has not been accompanied by economic growth. Likewise, different countries have followed strikingly different ideological paths. Countries that have fostered inequality, like the Dominican Republic, are strikingly different from countries that have been guided by socialist principles, like Cuba.

This chapter presents severa, general acd discussions of cities within various less developed regions, drawing on features that help us to characterize the general urban experience within these regions. At the same time, it provides examples from actual cities within these regions. Because these are regionally based examples, please keep in mind that a great deal of diversity is found among cities within regions, just as Las Vegas differs from Boston. Some of this diversity has to do with city size, some with differences in regional economies, and some with different political systems. Whenever possible, we will try to comment on some of these intraregional distinctions.

THE LATIN AMERICAN CITY

The phrase Latin America is convenient shorthand for those countries in South America, Central America, and the Caribbean. Most of these countries are Spanish speaking, although the largest country,

Brazil, is Portuguese-speaking. There is also some use of English, French, and other languages as well. Compared with the rest of the third world, Latin America is by far the most urbanized region, and we can safely say that most of the countries in the region have gone through the urbanization process. Most of the region's urban growth took place between 1940. and 1980 and resulted largely from rural-to-urban migration. At this time, cities in six large Latin American countries increased an average of 4.1 percent a year, while the rural population stagnated. The hage metropolises (major clack within the region) gained substantially from this migration, but the intermediate cities between 100,000 and 2 million. gained even more. According to the Population Reference Bureau (20.2), 79 percent of Latin Amercans fived in cities as of 2011, the same proportion as the developed countries. Expectations are that the percentages will not increase that much during this century, so we can consider the urbanization process argely completed in this area.

Most of the countries in Latin America can be considered middle-income countries. With the exception of the poor country of Haiti, gross national product (GNP) per capita ranges from \$2,000 to \$15,000. This range begins at about the global median and extends into the ranks of the global upper middle class. This reflects the fact that Latin America has undergone a great deal of industrialization. Between the 1930s and .960s, much of the impetus for economic change came from policies that tried to reduce dependence on imported manufactured goods. New domestic industries were fostered in everything from textiles to shoes to automobiles. Many countries established state-owned companies, relying partly on socialist models to spur development. More recently, industrial development has been spurred by multinational corporations that have established important branch plants in urban areas. These large corporations often bypass the biggest cities for intermediate-sized. lower-cost urban areas. Places like Mexico's arbanared northern border zone and parts of Brazil's Amazon region have benefited from these locational decisions. Several Latin American countries have been able to realize incipient advantages based on their resource bases—for example, Mexico and Venezuela are both major exporters of oil-and on their tremendous human capital.

At the same time, urban zation, overall income growth, and industrial development have perpetuated tremendous inequality. As a whole, Latin America. suffers the greatest degree of income disparities of any region (although sub-Saharan Africa appears a close second). The expansion of jobs in public administration, the growth of the professional class, and the rise of large industrial complexes have enabled auge numbers of people to get decent jobs with some benefits, and they have even enabled a small elite to become quite weathy. According to official statisties, the percentage of the urban employed population working in a professional or managemal capacity. increased from about 7 percent in 1940 to 16 percent in 1980 Between 1980 and 1998, the professional and technical workforce continued to increase in Brazil, doubling in Mexico and Uruguay, tripling m Costa Rica, but remaining flat in Venezuela and Columbia. But these figures, which suggest that a huge formally employed labor force has emerged, are probably optimistic. Much of the growth occurred during the 1980s. The 1990s witnessed considerably stagnation. At this point in time, the United Nations estimates that three out of four Latin Americans can be considered "lower income." Many of these people are nonpermanent and only tendously employed.

Colonial Legacies

Virtually all of Latin America's important cities were established within the 100 years of the Spanish and Portuguese conquests, A geographically vast urbannetwork was created for the express purpose of subduing and controlling the countryside. Even at this early period, the colonial society was intensely urban-All political authority was vested in the cities, which controlled the surrounding countryside. In Spanish America, the main capitals were headed by a vicerov (or representative of the king), while other cities were given administrative control over smaller districts The bulk of wealth came from the countryside, and the majority of people still lived there, but cities

were clearly the focal points of the South American colonies.

The Spanish and Portuguese do not appear to have made any real attempts to develop the countryside. The main purpose of development was to extract the countryside's mineral and agricultural wealth. Many settlers intended to make their money and then return to Europe. Leaung citizens (usually the first to come over) were granted vast tracts of land called encomiendas, as well as Indians to work these lands. Despite their possessions, most huge landowners chose to live in the cities

This colonial society was highly straufied, and only landowners held any power. The founding families monopolized most of the available wealth. They were followed by later colonists of high rank. Next came the Spaniards of lower rank, foreigners, mestigos (people of mixed European and Indian ancestry), Indians, and finally black slaves. The cities swelled as indigenous groups whose livelihoods had been destroyed were forced to come looking. for work

Latin American cities had a districtive form that stall can be seen today (Figure 15.1). Where they could, the Spanish set up a grid pattern oriented around a plaza. This was primarily an empty block. ased for periodic markets, public gatherings, or military possessions. Around this plaza were located the main public bundlings, the mansion of the viceroy, and the cathedral. This area and adjacent blocks marked the first zone, which was generally the only part of the city that was paved and well lit. Surrounding the first zone was a second zone inhabited by a rudimen. tary middle class consisting of artisans, clerks, and small proprietors. This zone was not nearly as well serviced. Beyond this zone were settlements inhabited by unskilled workers.

Independence and the onset of industrialization. in the nineteenth century largely accentuated these trends. Some of the biggest cities, like Mexico City and Lima, grew much bigger than the others as they became centers for administration and export. Demand from Europe and North America for new products enriched a few people, who spent money on ever larger mansions in pleasant surroundings,

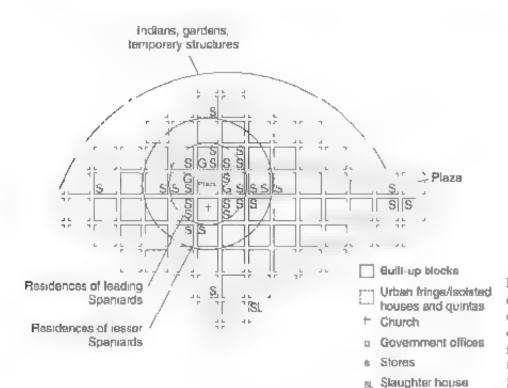


Figure 15.1 Model of a colonial city in Latin America. This displays the focus of the Spanish colonial city around a plaza, with status declaring with distance from the central plaza, Source Sargent, Charles S. 1993

but it did not do much to improve the conditions of the majority of the population.

Modern Latin American Cities

The modern Latin American city is at once a center of hope for people within the region and a cumulation of social and economic ills. Latin Americans love their cities, they see themselves as an arban people. This is represented in the cafe culture, lively streets, extraordinarily vital downtown districts, and numerous public activities that take place within the city. The magnetism of the city, along with dwindling opportunities in the countryside, has long pulled people away from the countryside in search of a better life. Yet Latin American cities—some of them among the biggest in the world—are hard pressed to deal with this influx. Many urban residents want the basic comforts of life but find themselves scrounging for whatever income they can find.

Themes of City Life Three themes that help us to characterize the modern Latin American city are (1) urban primacy, (2) spatial polarization,

and (3) uneven economies. We begin with urban pronacy. Rural-to-urban interation was concentrated on a few centers and occurred in explosive bursts during the 1950s and 960s. This ingration generated high overall levels of urbanization, with extreme concentrations in just a handful of primate cities. Import substitution models of economic development in which Latin American countries attempted to substitute home-produced items for manufactured imports-tended to focus economic energy on these centers even more in the 1980s. this trend was partly altered. Smaller cities began to grow more quickly as the economy shifted more toward exports. A good example is the development of industries known as magnifadores on Mexico's border with the United States. These are often concentrated in labor-intensive industries such as textiles, clothing, furniture, and electronic goods. The growth of industry here, spurred by the desire of American companies for cheap labor and good location, has prompted the growth of several smaller cities. Figure 15.2 shows the growth in the major Mexican border cities between 1900 and 2005

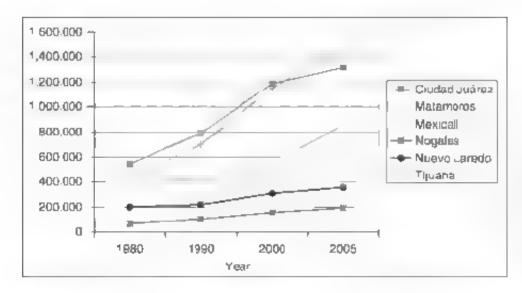


Figure 15.2 Mexican communues hordering the United States have grown ron small owns to big er es. Of the six canes shown here, all but Nogales has a population over 30f.000 as of 2005. Source: Amhors:

The second theme is spanal polarization, Many Latin American countries have a highly unequal meome distribution, with a large gap between rich and poor In the 1960s and 1970s, the wealthy chose to remove themselves from the problems of poverty by establishing fortified citadels. There was also a movement toward the urban periphery. This trend followed the North American model in some ways, but it differed in two important aspects. First, many of the wealthy chose to remain near the downtown

Most Latin American cities exhibit something of a Western European model, where wealth and income decline with distance from the center city. Second. the number of people able to afford such a move was small, and the clife sector was generally contained in one or two directions only Figure 15.3 shows both of these patterns, with elite districts found at the core stretched along two wedges. Urban services followed this wedge or comdor. Many of the poorest. residents likewise moved to peripheral locations, but

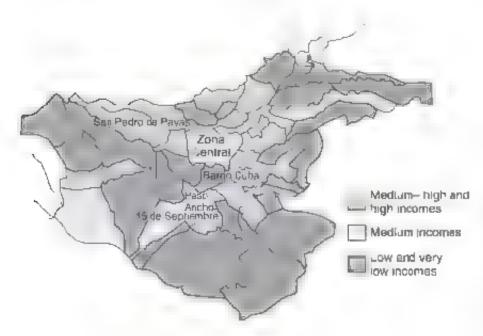


Figure 15.3 Sun Jose, Costa Rica, exhibits the tendency among Latin America's affluent to live in the central city (zonu central) or along a defined corridor or wedge stretchng outward to North American style suburban dwellings Source: Lango. Mano, 1997.

they came to reside in massive squatter settlements that were removed from the affluent suburbs.

In recent years, continued arban growth and the legacies of the Latin American debt crisis have forced more middle income people to establish neighborhoods in formerly improverished areas and have led some squatters to infiltrate neighborhoods that were the preserves of the rich. Spatial separation in Latin. American cities is in no manner "pure." São Paulo, to give one example, was transformed from a city where different socioeconomic groups lived at some distance from one another to a place where the wealthy and the poor live much closer together. Note that the fact that the rich and poor no longer live far apart does not mean that income disparities have diminished. In addition, their proximity to poor populations. has encouraged wealthy residents to create social distances and physical barners and to ensure that their habitats, often luxury apartments, are heavily fortified and have tight security.

The third theme has to do with the uneveneconomies that forced many rural residents off the land because they could no longer be sustained by aradational agriculture, Lands were taken over by modern agribusinesses, and the "outplaced" restdeats left for the cates. But the city economy did not have enough formal employment opportunities to absorb these newcomers. At the same time, without welfare protection and no real chance to go back to the villages, the new residents were forced to make do. The informal economy swelled, absorbing more than one-half of the urban labor force in the 1970s. For a time the informal economy was perceived as a compensating mechanism for the limitations of the formal economy However, current indications are If at it is too limited to absorb a lief the workers who cannot find jobs in the formal economy. Moreover, economic downturns can create situations in which residents can find nothing in either economic sphere

In addition to these three themes, some other peculiarities are seen in the Latin American city. One of these is the nature of race, discussed more fully in Chapter 9. Latin American cities, like the American and Canadian cities to the north, are products of immigration. Volumary immigrants from

Europe, and to some extent Asia, were joined by involuntary unmigrants brought over by the slave trade. These groups then mixed with the indigenous. Indian populations, which in some cases continue to comprise a sizable proportion of the population (Figure 15.4). These indigenous groups tend to be poorer than the average individual within each country. Although urbanization rates among the various indigenous groups are lower than average, recent years have witnessed a movement of Indians to the major cities—sometimes crossing international borders. Poverty and new imgration merge to produce disadvantage. Available evidence indicates that Indians are worse off than others in all areas of arban life, including income, housing, education, and health. In addition, they are looked down upon by the urban ethnic majority

Likewise, the proportion of people of African descent is high in many Latin American countries, although the percentages vary. In total, nearly 10 million slaves were forced into the Americas between 1450 and 1870 less than 4 percent of whom were brought to North America. Of the remainder, the largest numbers came to the West Indies (about 4.5 million) and Brazil (more than 3.6 million). As a result of this massive slave trade. African-origin residents now constitute a majority within Caribbean nations such as farmaica, Haiti and Timidad, as well as an enormous proportion of Brazil's population, According to Ribearo and Telles (2000), Brazil contains the second highes. African-origin population in the world, second only to Nigeria.

Significantly, race is constructed far differently in Brazil and other Latin American countries than in the United States. It is not considered an either-or proposition but rather occars along a spectrum that ranges from "white" at one extreme to "black" at the other and includes a large number of people who are "mixed race." At the same time, race plays an important role in opportunity and economic opportunity Most blacks are poor; most middle and upper class individuals are white. Even in an all-black society like Haiti, gradations in skin color are generally anked to economic status, with lighter-skinned blacks composing the Haitian elite. Race also is a significant

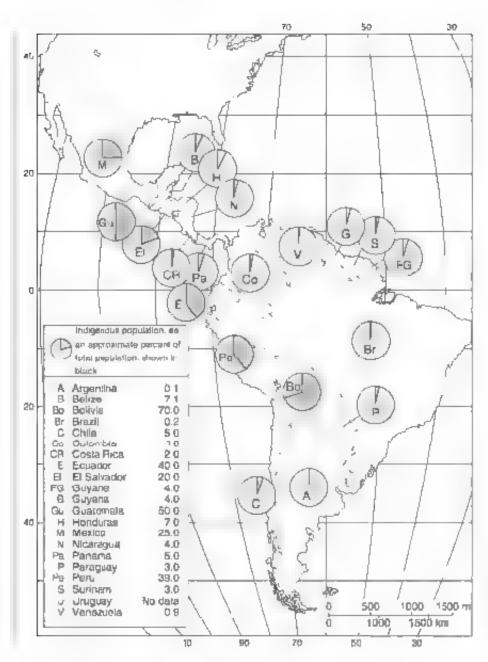


Figure 15.4 Map indicating the percentage of the population that is indigenous, Many countries, such as Bolivia, contain a signifcant number of Indians. Source: Authors

predictor of residential location (Figure 15.5). Segregation levels are not quite as pronounced in Rio de Janeiro as in most American cities, but they are stilpronounced, even among those households that are considered comfortable

Spatial Layout In many respects, the spatial layout of Latin American cities reflects their colonal legacy, the presence of a wealthy elite, a substantial

middle and working class, and the large population of desperately poor people who have magrated in search of a better life. It also reflects the fact that municipal services can expand only so much. Sewers, water, electricity, paved roads, and other services are limited and tend to be found near the center and in more established areas. Figure 15.6 provides one model for the Latin American city. It is important to keep in mind when examining this model that considerable

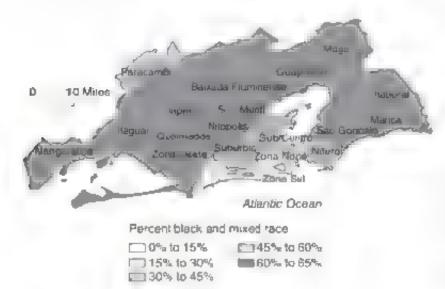


Figure 15.5 Brazilian entes are characterized by divisions of race. This map of Rio de Janeiro indicates that black and mixed-race populations tend to cluster outside of the central zone and in the outskirts. Compare with the map in Figure 14.3. Source. Ribeiro and Telies, 2000.



- Commercial/Industrial
- Eite residential sector
- Zone of maturity
- Zone of in situ accretion
- Zone of periphera, squatter settlements

Figure 15.6 Model of Latin American city. Although this model has been entititied for being overly general, it remains a useful way to understand the spatial logic of Latin American cities. *Source*: Griffin, Ernst and Larry Ford, 1980.

overlap exists between social districts. As stated earlier, it is common to find rich and poor living close together.

As with Western cities, the central business district (CBD) is at the economic center of the city. It might also be considered the center of the formal sector where the bulk of investment and economic activity goes. But the CBD serves an even more vital function in Latin American cities. Locations near the CBD are valued, and central-city neighborhoods are considered presugious, similar in the situation in most European cities (see Chapter 13). The wealth-test members of society live there. This prestige is reinforced by the pattern of settlement around the CBD. Stemming out from the CBD is a wedge of the city focused on the most prestigious avenues. This area, known as the spine, is where many of the Latin American elite are located.

Surrounding the CBD are zones of decreasing residential quality. A zone of maturity generally contains completed houses, paved roads, and other services and is home to those who have enough money to rent or own houses. These are often the more privileged workers employed by the formal sector, perhaps corresponding to between one-third and one-half of the workforce. Beyond this zone is a zone of in situ accretion that contains some completed houses but

also a large number of slums. This zone is often converted into more settled neighborhoods as the working class expands and mumicipal services are extended. Often, newer public housing is located here.

Beyond thus zone are the squatter settlements. The outer fringes of the city are composed of the poorest people. Sewers, running water, and garbage pickup are practically nonexistent. In Mexico City, for example, 3 million people lack these basic services and the number is growing all the time. Many of the people forced to live in these squatter settlements. known as colonias papulares, work in the informal sector Often these areas are growing most rapidly because many new migrants must settle there.

Most Latin American cities have at least some squatter settlements. Buenos Aires may be the wealthsest large Latin American city, but even here massive squatter settlements have begun to appear along the outskirts. In addition, different squatter settlements are sometimes segregated by ethnic group and place of origin, mainly because people live near people they know. For instance, vast numbers of Andean Indians. have settled in the eastern fringes of Lima, Peru.

In the Latin American city, proximity to the center determines an individual's position in society This pattern bears some similarity to the traditional city discussed in Chapter 2, and it is the reverse of the concentric zone model discussed in Chapter 7 Geographical divisions in residentia, locations correspond with economic divisions between the formal and informal sectors. The inner sections of the city represent the formal sector where industrial and economic growth is most prominent and where the elites and the permanent workforce are lakely to locate. The outer sections of the city represent the informal sector where all of the migrants come to live without adequate bousing or stable employment.

SUB-SAHARAN AFRICAN CITIES

As a broad region, sub-Saharan Africa experiences the lowest proportion of residents living within cities: approximately 37 percent for the region as a whole, although individual countries range from 11 to 86

percent. Nevertheless, urban growth today in this region is quite rapid. Sub-Saharan African cities were almost all small colonial outposts before the 1950s, only Johannesburg in South Africa contained more than 1 million inhabitants. Since independence, however, these cities have begun to balloon in size, such that today about 25 cities boast populations in excess. of I million, and a few (e.g., Lagos in Nigeria and Kinshasa in Congo) have more than 9 million inhabitants.

What accounts for this growth? To begin with, the region is growing rapidly through natural increase. Births far exceed deaths, to the point where the overall population is expected to double in about 20 to 25 years. But the urban population is increasing even more rapidly, by close to 5 percent per year. This is the highest urban growth rate of any region in the world, and it means that the urban population will triple within the next 20 years. These numbers andicate that more than just population growth is responsible. In addition, as in Latin America, people in the countryside are moving to the cities. Where will these newcomers settle? Why are they moving to the cities? The growth of African cities, as with all cities, must be viewed through the prism of rural push and urban pull

What has made African urbanization more difficult, perhaps, is that the push factors of rural landlessness and poverty are more significant than any opportunities present in the cities. Put another way, there is less of a correspondence between urban growth and overall economic growth. To an even greater degree than in other less developed regions, migrants arriving in African cities face uncertain employment and housing Sub-Saharan Africa's marginal position within the global economy means that it suffers from woefully inadequate private investment and a retarded industrial base. Sub-Saharan Africa is the one region of the world that experienced a net decline in economic growth from 1970 to 1995. While the urban population grew by 47 percent annually, the per capita GDP declined by 0.7 percent per year. In a 2000 report, the World Bank stated that

Cities in Africa are not serving as engines of growth and structural transformation. Instead they are part

of the cause and a major symptom of the economic and social crises that have enveloped the continent (p. 130)

The problem was blamed on "distorted incentives" such as food subsidies to urban inhabitants, as well as a growing fear for personal safety in the countryside. The legacy of colonia sin, which superimposed provincial and then country boundaries with no regard to nations or ethnic groups, means that most countries suffer from ethnic antagonisms, political instability, and rule by coup de'tat and strongmen. These economic and poutcal difficulties cuminate in flawed policies, a climate of fear, and cities that grow without any economic rationale

Is there hope? Well, between 2003 and 2012, while the population increased a great deal, the regional GDP nearly impled. As result per capital gross national income (another surrogate for GDP) improved by over 60 percent led by Nigeria, South Africa, and Ethiopia. The burgen of debt was slowly going down and merchandise exports were all on the rise. Still, there is a long way to go.

Indigenous Influences

Until recently, sub-Saharan Africa was considered a region without a legacy of cities. Indeed, compared to many other world regions, the size and number of cities were modest. Nevertheless, cities did exist throughout the continent (Figure 15.7). Historically,



Figure 15.7 Historical centers of urbanization in Africa. Prior to European colonization. Africa contained a number of important urban centers. Many of these were placed along imajor caravan rootes, or on ports, or as centers of kingdoms. Source Mehretu, Assefa, 1993

much of sub-Saharan Africa participated in a farming economy and showed early indications of central authority prerequisites for the formation of cities n several instances, crities emerged as entrepôts at the end of extended trading routes. Timbuktu, in present day Mali, was a key outpost for cross-Saharan caravan trade. Mogadisha, in present-day Somalia. and Mombasa, in present-day Kenya, were sign fcant centers for trade along the Indian Ocean. As merchant posts, these cities were likely to be quite sophisticated and culturally diverse, blending Arabic. Berber, Persian, and native African elements. In other cases, cities developed as centers of administration for ancient African kingdoms: Ghana and Songhai in the north, Zimbabwe in the south, and Luba and Lundain. the Congo basin

Among the most elaborate of pre-colonial African societies were the Hausa societies in western Africa. These were patriarchal, slave-owning societies, most of which had converted to Islam. They were also isolated from main centers of power, including several African empires. The Hausa cultural region included several warring city-states, ranging in size from 300 to 13,000 square miles, that flourished between 1450 and 1804. In the center of each state was the birane, or principal city. The situation, as defined in Chapter 1, of the birane was significant. The city had to be located near constant water supplies. constone deposits, and certain "nature spirits" in addition, the birane was always located in areas of nch agricultural potential, and high office in Hausa societies was identified with farming

Kano, in present day Nigeria, is a great example of a bitane (Figure 15.8). Kano was surrounded by an enormous earthen wall, some 15 miles around in an irregular oval and about 30 feet that with ditches on either end. It had about 15 gates made of iron-clad wood. Within this wall were the hadt-up town, some viltages, and ironstone hads. All told, this barane was about 12 to 15 square miles in area and contained approximately 50,000 people. The "city" portion constituted about one third of the walled-in and 1t was dominated by a mosque, aligned toward Mecca, with a tower to call the faithful to prayer. There was also a marketplace filled with sheltered stalls

and often surrounded by specialized workshop areas for crafts. The residential lands within Kano were divided into several compounds, known as gida of which the most important belonged to the ruler. Each compound was made out of mud brick and contained open areas and sequences of hats. Socially, the gida included a large extended family headed by a patriarch, with unmarried sons, wives, and slaves. Hausa governments treated the compound as a single anit for tax and census purposes. Outside of the town but within the wall were villages, including villages for lepers and the blind. There was also plenty of cultivated land within the walls.

European Intervention

Cities in colonial Africa were established historically ate. Most early European settlements were established on the coasts to facilitate shipping. Thus, these ports served primarily as service areas. For instance, Cape Town, located at the southern tip of Africa, was established to provide water and provisions to Porti guese sailors rounding the Cape of Good Hope. Most nefamous were the settlements established as funnels for the trans. Atlantic slave trade, For example, Lagos developed in part because of its role in the slave trade. Slaves captured from the north were imprisoned on Lagos Island before being shipped to the Americas.

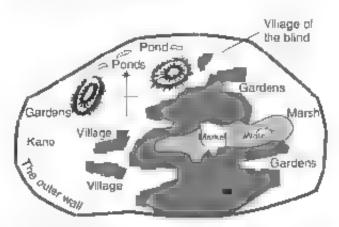


Figure 15.8 Kano, in present-day Nigeria, was an important Hausa city-state in the period between 1450 and 1804. A large outer wall encircled the bull-up area or binsie, agricultural fields, villages, and iron resources. *Source* Griffeth, Robert, 198.

During the "scramble for Africa" in the late morteenth century, European colonizers developed most cities to serve the economic role of siphoning goods from the coast and the political role of governing the native populations. The same cities often served both functions. To quote Ed Soja and Clyde Weaver (1976), cities.

were designed to distribute scarce resources in such as a way as to promote an exploitative emphasis on economic relations, to facilitate control and domination by a nonindigenous colonia elite and to solidify a condition of dependency within the international market system. (p. 240)

African cities either created or developed during this period served the interests of Europeans and were meant mainly as places to house and employ European overseers or colonists. The extent to which these cities accommodated the native African population varied significantly from place to place. It is possible to construct a rough typology of sub-Saharan African cities.

A few cities were truly indigenous in that they developed with flute European intervention. Addis-Ababa, Ethiopia, is the best example. The city was established in 1886 as the administrative capital by the Ethiopian emperor Menelik II, and it grew to a population of about 60,000 by 1910. Because Ethiopia was never under European control, with the exception of Italian occupation in the late 1930s, Addis Ababa was allowed to develop in accordance with its hinterland and as a true administrative center for Ethiopians, although merchant activity was discouraged. In contrast, settler cities were intended for the exclusive use of Europeans and made no provision for African inhabitants, except as servants. The cities in South Africa clearly exemplify this pattern (Box 15 1)

Colonial cities were inhabited by Europeans, Africans, and often migrant laborers from South Asia. These cities served principally as administrative capitals, whose purpose was to serve the European colonists. Many African cities fell into this category. These cities were clearly marked by racial and occupational divisions (Figure 15.9). Europeans

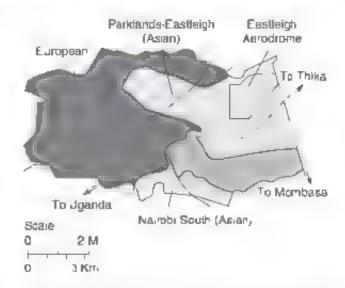


Figure 15.9 Nauroba, Kenya, was the capital of an important British colony. As with many African colonial extression was rigidly divided into European, African, and Indian areas. These also corresponded with went'h and housing quality. After decolonization, the European area continued to be occupied by European expatriates and more affluent Africans. Source: Metreta. Asseta, 200

occupied the best lands—high ground with extensive nfrastructure. Although their residences were located close to the downtown, they often resembled a leafy suburb. In contrast, the Africans often were wedged into dense pockets in segregated neighborhoods. Asian Indians were located in their own suburbs, but they were also present throughout the city—within the CBD and in the African greas—as small-scale business owners and traders.

Although it is true that only a small minority of cities are "exclusively" colonial (Mehretu, 1993, suggests only 28 of the 146 biggest cities), the colonial influence throughout sub-Saharan Africa is still tremendous because 1) the area was not colonized until the late nineteenth century, (2) the region was not highly arbanized prior to the arrival of Europeans, and (3) most cities were set up to serve the interests and comforts of the colonists. Consequently, the nature of many African cities is related to their colonial origins. French cities vary significantly from British cities, which vary from Portuguesa cities. Many of these colonial-era differences continue, depending on the ties that still bind the former

colony with its metropole. For example, in contrast to Portugal, which rapidly fled all of its former colonies after they became independent, France has scrupulously maintained ties with French-speaking countries in West Africa. In Abidjan, the largest city in the former French colony of Ivory Coast, a writer observed in the late 1970s that "you see the names of reputable French firms, and may think for a moment that you are driving through a pretty little town in the south of France." This would not be the case Ioday.

Modem African Cities

Since independence, the population and especially the urban population of sub-Saharan Africa has increased tremendously. Consequently, African omes have experienced an unprecedented expansion, and many have been transformed from predominantly European reserves to places with primarily African populations. The differences among these cities are large, which makes it difficult to develop a coherent model of the sub-Saharan African city, but we can identify a few elements that help to cludiacterize these cities.

One attribute is the fact that cities are made up almost entirely of newcomers. Only a tiny minority of the urban population is made up of people who were born there, generally less than 10 percent. Consequently, high-ranking government officials and those fortunate enough to enjoy good jobs in business have been able to occupy neighborhoods formerly reserved for Europeans. In contrast, the majority of people, faced with bleaker prospects, have been forced to scramble for whatever jobs and housing are available. In most cities the proportion of people employed in the informal economy exceeds 60 percent, In addition, squatter settlements on the periphery of the cities have grown teemendously.

Another characteristic of African cities is the confinged salience of **Fribalism** or ethnic aftiliagon. New arrivals coming to the city identify primarily with their tribe, which helps them to navigate through this new and unusual society. More so than in Western cities. African cities may help to promote tribal idenufication, because it is through tribal connections that people find jobs and housing. Likewise, famtly ties exert an extraordinary importance, affording food and shelter to the new arrivals. Moreover, many urbanites continue to maintain ties to the village, to the extent that they feel it is important to retain land, family, and position there. They might still consider the city to be a temporary way station rather than a permanent residence

Finally, the role of women, although still deficient by Western standards, is more positive in the cities than in the countryside. Men who come to the city may leave their families behind but continue to planfor a return. Single women who move to the city cannot be assured of continued contacts. Rather, many end up severing their village ties. Although women are still occupationally restricted in cities compared to men, cities are clearly viewed as more liberating places. For instance, married women are far more likely to divorce their husbands in the city than in the village, testifying to their greater economic and social independence

South Asian Cities

Asia contains the oldest cities in the world. At a time when most Europeans were dispersed throughout a rude wilderness and North America was a land of fields, forests, and villages, empires in India, Persin, and China boasted the preeminent cities, by far the grandest on the planet. Today huge disparities exist in urban places and urbanization within Asia. Japan, discussed in Chapter 13, is a fully developed country that is highly urbanized. In addition, "tiger" economies like those of Korea, Taiwan, Singapore, and other Southeast Asian countries are urbanizing very rapidly. Many of these countries have become urban only since the 1990s. In contrast, the countries of South Asia, primarily India. Pakastan, Bangladesh, and Sri Lanka) contain some of the largest cities in the world, but at the same time they have one of the lowest levels of urbanization. These levels range from 28 percent in Bangladesh to 31 percent in India to 35 percent in Pukistan.

Nevertheless, large numbers of urban dwellers live within South Asia. India, for example, has more

BOX 15.1 APARTHEID IN URBAN SOUTH AFRICA

Cities in South Africa are distinct from all other cities on the continen. One reason for this is that South Africa was the one region truly settled by Europeans. Both the cities and the countryside were colourzed, first by Afrikaansspeaking Boers who were originally from Holland, and later by the British. Another reason is South Africa's legacy of apartheid. Apartheid was a system of strict racial separation that allowed the minority white population to exercise complete political and economic control over the majority black African and mixed-race populations. Apartheid was legally abolished in the 1990s, but the legacy tensions in the ethes.

Throughout the twentieth century. South Africa developed an impressive system of cities, most notably Johanneshurg. Cape Town, and Pretoria. Ultimately, these cities. were intended to be the exclusive preserves of the white population. Black Africans were expected to live in one of a dozen designated "homelands," with the eventual goal that these should become independent countries. As a result, most black Africass were not officially allowed to inhabit the crites unless they were granted work permits, and even than they were not allowed to bring their families. The black population was divided into a minority who were considered to be more or less permanent urban residents of white South Africa, the so-called townsmen, and the vast majority who were considered temporary residents of white South Africa, known as "trabesmen." Tribesmen were subject to resettlement at any time, and resettlement programs resulted in the forced removal of about 4 million blacks, often Jimm South African cities. Black Africans

were often separated out into the very outslarts of cities, where they tended to form large, sprawling "townships," of which the most famous was Soweto, a suburb of Johannesburg (Figure B15.1). Complicating this racial picture was the presence of mixed-race or "colored" populations, as well as Asian Indians. The colored and Asian populations tended to live within the cities.

The Group Areas Act, passed in 1950, codified apartheid at the tirban scale. It mandated that neighborhoods be uniformly of a single race. Consequently by 1976 nearly



Per-Andes Perternon rd-we/Gety mages

Figure 815.1 The legacy of rucial segregation in South Africa led to vast disparities of wealth. This photo shows township houses in Kwa-Mashu, a poor township outside Durban. South Africa

urban dwellers (395 million) than does the highly urbanized United States. Moreover the numbers are increasing rapidly Soon the urban population of India will surpass the entire population—both urban and stiral—of all of North America. As with other less developed countries, the two factors fueling the growth of Indian cities are the continued high rates of natural increase (around 2 percent) and rural-to-urban migration, with natural increase having a greater effect. As a whole the levels of urbanization in India may increase in the coming decades (Figure 15,10), but urban growth there is

still lower than in many parts of the world. Moreover, recent evidence indicates that the rate of urbanization has slowed. Although urban growth continues, it is not accelerating as quickly as we might expect, and it is far lower than the rates of urbanization in Africa and Southeast Asia. Although Indian cities are growing, and the proportion of people who live in the cities is slowly increasing as well, India does not seem to be following the general rule of urban acceleration. We discuss why a bit later

The effects of in-magration vary depending on the city. For example, within India, Mumbai (formerly

500,000 enfored and Asian Indians had been forcibly moved from their bornes into designated neighborhoods. Figure B15.2 shows the establishment of Group Areas within Cape Town. Each race was granted a terrstory within which its members were legally required to reside. Space was manipulated at the urban level to minimize the chances that the different races would come into contact with one another. Thus, the territories were usually arranged sectorally, with industries, rivers, and major roods acting as boundanes. Because segregation was legally enforced, neighborhoods were almost entirely segregated, except for some live-in servants in the white neighborhoods. Boundaries separating Group Areas were so rigid that no member of one race could enter into the neighborhood. of another race without a pass or permit. This was not a major problem for whites, but for other races it imposed a hardship because they often needed to work in "white"

Domination by the white population was reflected in the quantity and quality of allocated lands. There was a rough rule of themb that whites should receive four times as much tand as black. Africans and three times as much land as Asians and coloreds. Moreover, whites were always given the most desired and in the city.

Since the abolition of aparthesis, de june segregation (as legally required by the government) is no longer in place. Members of each race are ostensibly free to live in any portion of the city. At the same time, however, de facto segregation—where racial separation persists as a phenomenon—is a major issue in South African cities. De jacto segregation is caused in part by the economics of

housing, more specifically, the inability of nonwhites to afford housing in white neighborhoods. Some of the factors present in U.S. housing markets and discussed in Chapter 9, such as discrimination and steering, undoubtedly continue to play a role.

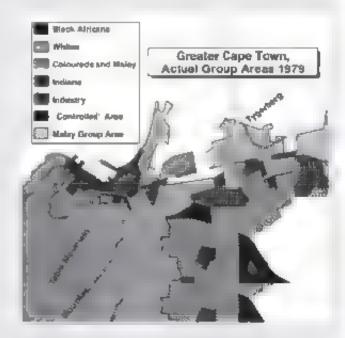


Figure B15.2 South Africa's apartheid regime mandated the separation of races within cities. This map for Cape Town, South Africa demonstrates this type of racial anning. Source: Western, John, 1996.

Bombay) is seen as a dynamic place with plenty of opportunity. An estimated 10,000 people move into Bombay every day. In contrast, Kalkata (formerly Calcutta) does not enjoy this level of popularity because it is accurately viewed as being a less economically dynamic city. Overall, India's besteducated workers, as well as many of its downtrodden, eschew Kalkata in favor of other urban centers.

A Typology of South Asian Cities

Historically, South Asian cities have had very different origins. The Indus Valley civilization was the second oldest urban envilvation in the world and probably the best planned. Since that time, South Asia has hosted an array of large established kingdoms, each organized and prosperous enough to host large, impressive capitals. Moreover, South Asian civilizations continued to flourish well into the modern era as empires dominated by Islam came into direct contact with those dominated by Hindhism. The influence of these historical cities continues in the modern urban landscape. For instance, India's capital city of Delh, had its origins as an imperial capital of the same Mughal emperor who built the Taj

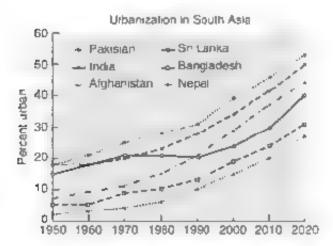


Figure 15.10 Urbanization rates for South Asian countries. Although at contains many enormous cities, South Asia is one region with low levels of arbanization. Urbanization cates are increasing for each country, however, as this figure shows. Source: Dutt. Ashok, 1993.

Mahal The city was named Shah Jahanabad, after the emperor, and was oriented around a massive red fort, where the emperor and his entourage aved, and the main mosque of the city

Adjoining these planned elements was the largely organic city, filled with winding streets, shops, and markets. Indeed, all along the "Mother Ganges" is a procession of ancient cities that grew to importance prior to European conquest, Dacca, now the capital of Bangladesh, was also developed prior to colonialism and returns some of its older elements.

The legacy of these older cities influences much of the so-called bazuar city (Figure 15.11). The one element that marks these bazuar cities is the presence of a traditional crossroads, bazuar, or chowk at the center of the city. Within this chowk are crowded numerous small retail shops that sell everything from food and hardware to clothing and jeweiry. Competing shops, selling the same items, tend to cluster together, creating small bazuars for each good. This central area also contains a variety of other functions, hoteis/tins, theaters, restaurants, and pawnshops. There may also be a separate enclave composed of wholesale shops.

The center also contains the dwellings of the wealthier mea hants, who often live in the same

building where their shops are located. This center is surrounded by a ring that includes wealthier residences mixed with the poor dwellings of servants. The ring beyond that primarily includes the poor In analyzing the patterns of South Asian cities, particularly within Hindu India, it is important to

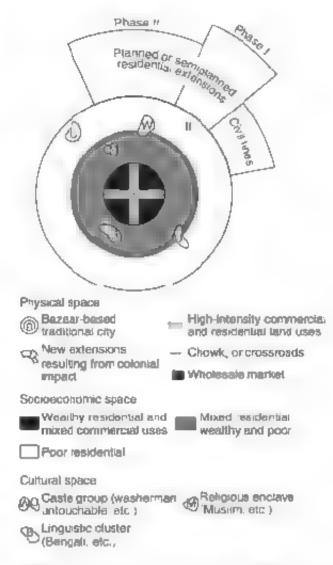


Figure 15.11 Plan of a bazzar city. The South Asian bazzar city is built around a triding center. Merchanis often live above or in back of their shops. Wealther fazinities are, in general, found near this central area as well. Source: Dutl. Ashok. 2001. "Cities of South Asia." In Cities of the World: World Regional Urban Development. 5c. Rowman & Littlefield Publishers, Inc.

keep in mind the continuing significance of caste Although discrimination based on caste is illegal, caste continues to orient daily life. Certain y, different neighborhoods around the chowk are del mited by caste even lending the name of the caste to the neighborhood. The buzaar city is also one where functional separation among residence, business, and workshop does not exist. Rather, these functions cluster together.

Colonial influence in South Asia began with many European powers, but in the final analysis, the British clearly played the dominant role. The British imposition in South Asia was directed first through the British East India Company, which was chartered by the Crown for trade with Asia. It acquired unequaled trade privileges from the Mogul emperors in India, and reaped large profits by exporting textiles and tea-As Mogul power declined, the company intervened in Indian political affairs and led eventually to direct colonization of India

Many cities arose from British colonialism. Chief among these are the so-called presidency cities. On colonization, the British established capitals for the three large provinces, or presidencies. These capitals were Bombay, Madras, and Calcutta. The influence of this decision was profound, as each city continnes to dominate its respective region. Beyond their administrative functions, these cities operated primanly as export enclaves to funnel materials from the interior and then ship them to England. The sites chosen were all intended to facilitate access to sea lanes. and to the interior. They were also easily defended from attack, All but Bombay had poor natural harbors. For instance, Calcutta's site, established on the east bank of the Hugh River, was beset by shifting sandy shoals and tidal bores. Because the three presidency cities were built by the British, they demonstrate a much greater columnal imprior than other cities. in South Asia do.

The model of the South Asian colonial city is still an appropriate way to view these cities (Figure 15.12). Because the primary function was trade, the port facility was the crucial element of the city. Located next to the port facility was a walled fort, which in turn was surrounded by an open space, or maidan. South Asian colonial cities were split into the European and indigenous districts. The contrasts between the two districts were quite The administrative section and the marked. Western-style CBD acted as the center of the European (mainly British) community and included hotels, stores, and museums. The British areas were laid out in regular fashion. Most British officials lived in large colonnaded bungalows surrounded by purkland or formal gardens.

The indigenous neighborhoods could not be more different. Although a few Indians were quite wealthy, most inhabited extremely congested neighborhoods. Residential densities in some Calcutta-

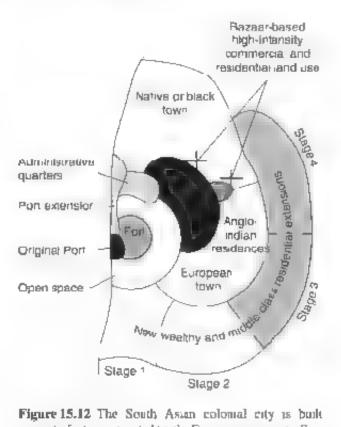


Figure 15.12 The South Asian colonial city is built around a fort, constructed by the European colonists. Surrounding this fort is a murdon or open-space area, and outside of this is the contemporary CBD and legacies of he rigid division of the residential landscape between European, native, and mixed races. Source: Dutt, Ashok. 2001, "Cities of South Asia." In Cities of the World. World Regional Urban Development, Se Rowman & Lattefield Publishers, Inc.

wards approached 145,000 to 165,000 people per square knometer (almost 700 people per acre) in 1941. Officials estimated that more than three-fourths of all residents lived in busines or slum quarters, and two-thards of all residents lived in buildings made of unbaked mud brick. Most residents had less than three square meters of living space and were forced to share a single water tap and a single toilet with about 25 other people. Nevertheless, these places continued to attract people because they offered more economic opportunity than rural areas. Between the British and native quarters, the mixed-race, or so-called Anglo Indian, neighborhoods could be found. Here the housing was of good quality, although clearly not as grand as in the British area.

After colonialism ended, the legacy of this arrangement persisted. Most of the Europeans grad La ly left, and all areas were taken over by native peoples. The fort and the open space surrounding it generally remained intact, The European areas were

resettled by the wealthy, while the upper-middle classes lived close by New influxes of people continued to expand what had been the native quarters, adding to the overall congestion of the city. Throughout the last bail of the twentieth century, South Asian cities struggled to keep up with their steadily rising populations.

Since independence, several cities have been explicitly created as showcases. Islamabad in Pakastan and Chandigarh in the Indian Punjab are good examples of these cities. Planned cities in South Asia share a lot in common with planned cities in the rest of the world, mainly because they follow a Western model of what an orderly city should look like. In the case of Islamabad, the idea was to orient the population away from the more crowded Karachi. Chandigarh was built by Le Corbusier, the noted French architect who believed in creating monumental buildings separated by open spaces (Figure 15.13). The site was a chosen for its beauty,

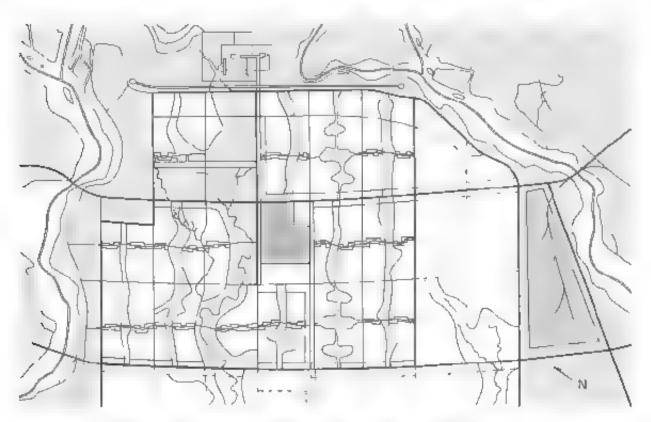


Figure 15.13 Chandigarb India, is the capital of the Punjab and was designed by Le Corbusier. A though demands for space and poverty have intruded, the city cetains much of its original character. Source: Kostof. Spiro. 1994.

drainage, water, and room for expansion. The street system is set up as a grid, with roads classified by their uses and accepted speeds. The city stself is divided into 29 self-contained sectors within which people can fuffill most of their shopping, education, and social needs. In adultion, a number of provisions have acted to preserve open space, including a greenbelt

Modern Challenges

These hree types of South Asian cities—bazaar cities colonial cities, and modern showcase citieshelp us to understand the predominant spatial layouts. of South Asian cities. At the same time, however it is important to note some of the significant problems. that challenge these cities. Chief among these probiems is the inability of urban areas to keep up with the deniand for jobs and housing. Mumbai is a good case in point, it is clearly among the most dynamic of Indian cities-the center of India's financial. industrial, and mass cultural life-and it accounts for an incredible 30 percent of India's GNP, although it contains less than 2 percent of India's population. As a result, Mumbal has succeeded in attracting a disproportionate share of imgrants, 10,000 a day. by some extimates. But the city simply cannot keep up. People come looking for jobs, but these jobs are available primarily to skilled or connected workers. Housing is scarce, and land rent prices exceed those of New York. Consequently, many people in Mumbai end up sleeping on the sidewalks.

In fact, all Indian cities, whether dynamic or stagnant, must confront the problem of homelessness The homeless, called pavement dwelters because they actually sleep on the sidewalks, are a common sight throughout the country. Rural migrants come to the city looking for opportunity. Initially they cannot afford housing and in fact prefer to find a job first. Studies indicate that although such conditions are abhorrent to Western eyes, for the pavement dwellers themselves sleeping on the sidewalks is part of a rational decision. Most pavement dwellers are employed in temporary occupations, often as load carners (e.g., porters, rickshaw pullers, and handcart pullers). Living on the sidewalks minimizes the distance between

where they sleep and the location of possible jobs. Thus, most homeless people live in the CBDs where they cannot afford regular housing, and most sleep out in the open, jealously guarding their section of sidewark. Removal of these pavement dwellers would deal. a serious blow to their economic prospects.

On the other side of the economic spectrum has been the emergence of the newly affluent in several. cities in South Asia. In India, this phenomenon has resulted largely from globalization and the emergence of a well-educated technical class (see Box 15.2). It is important to remember that, although the Indian population is generally quite poor, there are still more than 175 million individuals who enjoy a middle-class lifestyle or better. (Of course only about 16 million Indians would be considered middle. class by the American standard of an annual income of at least \$40,000). During the 1990s, programs were initiated to house some of these newly affluent people in neighborhoods that are removed from the problems of orban life. In Kolkata, for example, two new town developments were established just to the east of the city. The older of these developments. Salt Lake (now called Bidhannagar), contains more than 200,000 people, while New Town Kolkata was planned to contain 100,000 housing units in addition. to a business district, light industry, and even a golf course. Clearly, New Town Kolkata was designed for the most privileged segments of Kolkata's population. To underscore this point, there are even plans to build several low-income "service villages" within New Town Ko.kata, perhaps to house the area's seryant population.

An additional issue is the continued influence of ethnicity. Distinctions between Muslims and Hindus, among different languistics groups and nationalities, and among castes continue to play a tremendous role in the structuring of South Asian cities. A study by Nirmal Bose (973) of Calcuttais illustrative of many cities in South Asia. During British rule, Calcutta attracted Indians of all national ities, religious offiliations, and eastes, most of whom settled in areas populated by their particular group. These divisions persisted even after India achieved

BOX 15.2 TECHNOLOGY AND URBAN GEOGRAPHY

THE SILICON PLATEAL CITY OF BANGALORE

Mention high technology these days and chances are you will soon be talking about Bangalore, India, renamed Bengalant. Bangalore was once virtually unknown to the average Westerner. To think of Indian cities was to imagine the slums of Calcutta or the exotica of Bombay, Today, though, everybody knows Bangasore, primarily because of its role in high technology development. In fact, it has been described as the "Silicon Valley" or sometimes "Silicon Plateau" of India. By itself Bangalore accounted for about a quarter of all of India's information technology activity, but that only limits at Bangalore's significance. From the 1980s, Bangalore has successfully transformed itself from a repository of low-wage technicians exploited by multinational information corporations to a production center in its own right that has been able to develop software products for global consumption (Figure B15.3).

What accounts for this growth? Bangalore possesses some natural attractions, among them a pleasant, relatively dust-free climate and a distance away from India a overcrowded Ganges basin. India itself benefits from its high education and greater English language proficiency, as well

as the fact that they are about 12 hours' time difference from the main U.S. markets. Bangalore itself was a city aided by aggressive government initiatives. The Indian Institute of Science was established in the early twentieth century and between 1950 and 1980, public sector firms specializing in electromes, aerospace, machine tools, telecommunications, and defense beiped to spawn a number of private firms that helped supply the larger public firms. When high technology had become a global phenomenos. Bangalore was particularly well placed. First, the language of high technotogy is predomnately English and Bangalore included a high proportion of individuals who were profestent in that language. Second, the city itself was quite cosmopolstan, attracting expatriates who found it to be the best choice for location within India.

This has all made Bangalore very prosperous within the context of India and a place where many indians come to make their fortune. In this respect, it has come to resemble some of the high tech growth centers of the United States. There are obstacles to further growth, among which are the still limited size of India's domestic market. Also, further growth depends upon a cadre of people who can make the transition from technical support to business management and development skills.

its independence and much of the European population departed. Figure 15 14 illustrates the different segregation patterns within Calcutta during the early 1970s. The major division is between the Muslim and the Hindu populations. Now Koikata, the city is in the middle of the Bengali cultural region, and the original and largest population consisted of Bengali Hundus who were mutally concentrated in a segregated "native quarter" to the north. The Mashin population is clustered broadly around two landmark palaces given long ago to nobility, but continues to be differentiated by nationality (Bengalis versus non-Bengalis) and by class (upper-middle class versus lower class). The Hundu neighborhoods

are further subdivided into wards inhabited by particular castes. Because castes are essentially occupational groupings, these wards serve as centers for a particular craft. (This layout is similar to that of the bazaar city discussed earlier.) Thus, the banking caste clusters in a quarter distinct from the brass-working caste. The antouchable or scheduled castes are located far from the others, even though they share the same nationality and religion. They are generally restricted to the worst neighborhoods in the floodplains in the city's outskirts. In addition, a number of residents are from outside the Bengali region. These groups have also been identified with particular occupations and, as with

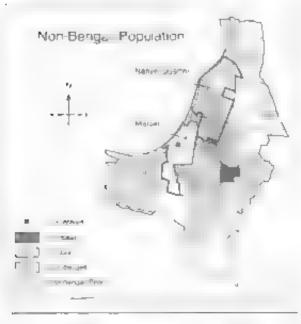


Figure B15.3 International Technology Strtp. Bengaluru

the Bengali populations, they have divided along easte lines

A final issue confronting South Asian cries is the slow rate of urban growth. Despite the fact that individual cities like Kolkata have trouble housing their existing population, the rate of urbanization (in India at least is lower than we might expect given the rate of industria 2at on. The technical if controversial, term for this is underurbanization. During each year of the 1980s and 1990s, the Indian GNP expanded by more than 5 percent in the 1980s and more than 6 percent in the 1990s and 2000s. But the urban population increased by less than 2 percent, two-thirds of which could be attributed to natural increase.

This stowing down of urbanization could be viewed as a positive element, perhaps a result of enhanced rural development programs. During the 1980s, for instance, hundreds of rural service centers were established, and specific rural areas were argeted for industrial development. Moreover, there appears to have been a moderation in rural poverty, which would reduce the rates of out-migration. The apparent levels of urbanization may be influenced by the fact that, as Indian cities became more saturated, more migrants were forced to reside in villages just outside the city boundaries. On a more negative note, the slowing down of urbanization could be seen as a product of the inadequacies of



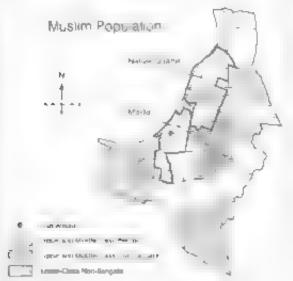


Figure 15.14 Segregation in Calcutta (now Kolkata) demonstrates the continued spatial separation between different groups. Source: Kaplan, David H and Seven R. Hollowey, 1998

Incia's cities, especially their mability to provide adequate employment and infrastructure

SOUTHEAST ASIAN CITIES

As with South Asia, the broad area known as Southeast Asia blends "indigenous" urban legacies,

colonial impacts, and recent attempts to create a new post-independence urban profile. The esties have some common elements, but the visitor is struck by the tremendous cultural and economic diversity among parts of the region. As a region longopen to access by land, river, and sea, Southeast Asia has absorbed influences from China to the north and India to the west. Later European powers profoundly affected the development of most cities, creating a system of port-onented primate cities. With the exception of Phailand, all countries were under the direct political control of European powers, and even Thailand, like China, was under Europe's economic sway. After independence, Southeast Asian countries pursued different economic and political paths, which led to different types of cities. The countries of Indochina embraced communism and suffered through war, revolution, and genocide. The countries of peninsular and insular Southeast Asia largely embraced capital-.sm, although with a clear authoritarian and often corrupt bent.

Today, the countries of Southeast Asia continue to differ Economically, the region includes several very low-income countries (Cambodia, Laos, Burma, and Vietaam), several middle-income countries (the Philippines, Indonesia, Malaysia, and Thailand), and a few high-income microstates (notably Singapore and Brunes). Overall prospects for the region are considered quite good, recent downturns notwithstanding, and this has lent a dynamic, prosperous gloss to many of the cities

Nevertheless, urbanization rates in Southeast Asia continue to be fairly low. Uptil the 1970s less than 20 percent of the population of most of these countries twed in cities. Unlike South Asia and much of East Asia, Southeast Asia enjoys lower population densities in much of the land—some places are incredibly remote. More recently, urbanization levels have crept up but are still low, even by standards of less developed countries. The major exception to this pattern is the city-state of Singapore, which is entirely urban. Also, Malaysia and the Philippines contain an urban majority. In contrast, the other countries in Southeast Asia are under 50 percent arban. In all of these countries, urban activity is concentrated in one or two primate cities, which absorb almost all of the

economic activity. Migration patterns - still skewed toward these primate cities--reinforce this trend

As one example of urban primacy in Southeast Asta, consider the case of Bangkok, the primate city in Thaifand. In the 1970s, Bangkok contained more than 75 percent of Thailand's telephones, consumed more than 82 percent of its electricity, and collected 82 percent of its business taxes and 73 percent of its personal income laxes. Things have really not changed that much in the ensuing decades. Bangkok still accounts for 41 percent of Thailand's GDP and about 34 percent of Thailand's total population.

Indigenous Influences: Sacred and Market Cities

Despite its low level of present urbanization, Southeast Asia has a long history of clues. During the first millennium A.D., several states and kingdoms emerged in this region. At first, smaller states that claimed Hindu Indian influence appeared in present-day Vietnam, Sumatra, Java, and Borneo Many of these states later coalesced into the large maritime empire of Sri Vijaya. Within present day Cambodia in the Mekong River delta the Khmer kingdom emerged. In addition, other kingdoms prosein present-day Thailand and Burma

The presence of such organized political and social power made the creation of substantial cities possible T G. McGee (1967) draws a useful disunction between market cities, which were oriented toward commerce and were located along the coasis. and sacred cities, which embodied the secular and spiritual authority of the state. These two types of cities performed distinct functions and had different patterns, but they often coexisted within the same country

Because of its central role in the kingdom, the sacred city was usually land based and located within the interior of the kingdom. It was the center of government and the military and it was also the spiritual center. The location of the city was determined by geomancy, a system of locating and aligning the city according to divine principles. The city was a microcosm of heaven, and so its location was critical. Inthe case of Angkor Thorn, capital of the Khmer kingdom, the city was aligned around the bayon, a large stone mountain temple. Still, the imperial ruler could

move the sacred city at his command, and he often did. For example, the capitals of both Vietnam and Burma were moved in this fashion.

The sacred city was extraordinantly well ordered. with the order determined by distance from the imperial compound. In the middle of the city were the palace and the primary temples. Angkor-Thom is an excellent example of such a sacred city (Figure 15.15). A large square wall was constructed. around the bayon (or main temple) and palace to help frame the city. The bayon and palace were surrounded by the elste functionaries, such as priests. warttors, and administrative officials, whose proximity to the center reflected their elite status. The main artisans and merchants were located further from the center Outside the wall were villages made up of the rural population needed to service the sacred city McGee (1967) reports that Angkor Thom required the services of 306,000 people in 13,500 villages.

Market cities were a different variety altogether, and they were shaped by the fact that Southeast Asia long attracted substanual maritime trade, with merchants coming from distant lands. Unlike sacred cities, market cities were located along the coasts. with the whole of the city hugging close to the shoreline. The trading population could be divided. between the indigenous merchants and foreign merchants, who almost always occupied separate quarters of the city. Hor An, a Vietnamese city located close to Da Nang, was a quintessential market city. It was situated on the coast, next to the Thu Bon-River, which meanders into the interior. In the seventeenth century, both Chinese and Japanese merchants. settled in Hoi An and occupied neighborhoods separate from the indigenous population and from each other. So separate were these neighborhoods that they established completely separate administrations. The Chinese and Japanese were later joined by Dutch and Portuguese merchants. Each of these groups has left reminders of their presence in the form of distinct architectural styles.

The Colonial City in Southeast Asia Colomalism affected every country in Southeast Asia and was responsible for three main geographic legacies: (1) the establishment of major administrative and extractive cities along the coasts, sometimes in

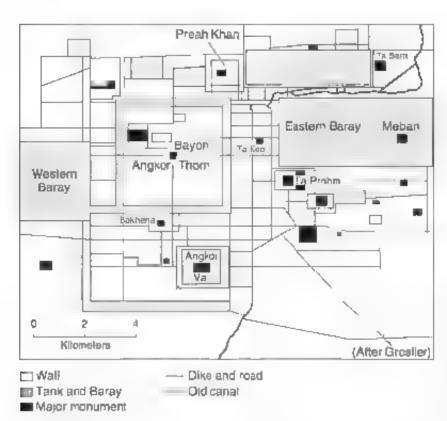


Figure 15.15 Angkor Thom, a site in Cambodia, was an excellent example of a sacred city within Southeast Asia. The major temples in the city are displayed in black. Each temple required the services in the form of inbute from surrounding villages—from tens of thousands of people. Source: McGee, T. G., 1967.

places where prior indigenous extres had flourished, but other times in wholly new areas, (2) the development of the dvalistic cotonial city that separated European and indigenous populations, and (3) the explicit creation of a middleman minority, made up of Chinese settlers, who were socially, economically, and spatially situated between the European overlords and the indigenous population.

Locational Aspects Figure 15.16 shows the situation of Southeast Asia as of 1910. Although the Portuguese had been the first European power to penetrate this region—with the capture of Malacca in 1511—by the nineteenth century their influence had declined. By the early twentieth century, Southeast Asia was divided into French Indochina, the Dutch East Indies (now Indonesia), British Burma and Malaya, the American Philippines (wrested from Spain in 1898), and an independent Thailand. Europeans initially came to dominate trade, but they remained to exploit the rich bounty of the interior Nevertheless, they made their primary urban impact

on the coast. They estab ished major colonia, capital cities on the coasts, usually at the site of some existing indigenous serdement. Among these capitals were Rangoon, Saigon Bangkok, and Batavia (now Jakarta). This preference for coastal sites reflected the European need for ports, because these cities were principally intended to be "head-links" between the raw materials of the colonial hinterland and the European metropoles. The major cities dominated trade in Indochina, for instance, 60 percent of all imports and 75 percent of all exports passed through Saigon in the 930s. These cities also functioned as nodes through which policy and power could be communicated and imposed on the colonial subjects within the intenor.

The Europeans were also responsible for establishing a number of smaller centers. Among these were railway pinctions, towns, mining settlements, district headquarters, and hill towns that often served as summer capitals. For example, the sprawling Dutch colony of the East Indies, flung across 5,000 kilometers, included the major capital city of Batavia

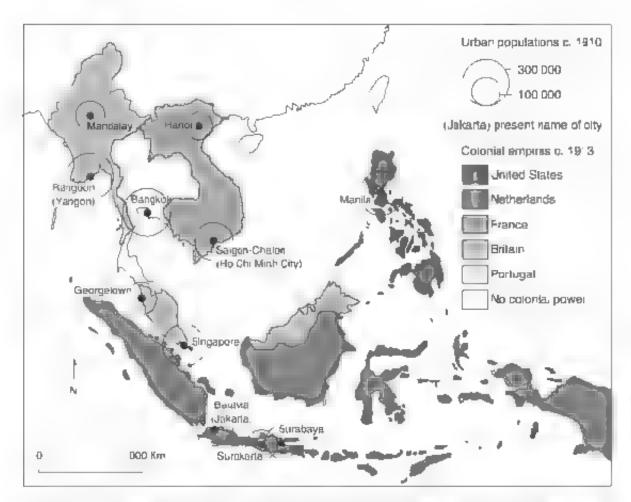


Figure 15.16 In the early 1910s. Southeast As a was largely controlled by European countries (That and being the sore exception). Many of the large cases that can aucto dominate the region were boosed by their functions in servicing this colonial economy and as capitals. Source: Forbes, Dean, 1996.

as well as several secondary cities that became important in their own right

The Dualistic Form of the City The characteristics of these colonial cities reflected the fact that they were intended to serve the interests of the European powers. The cities themselves were laid out on a grid pattern (Bangkok, which was never colonized, is a notable exception to this) with an occasional concession to a pre-European element, such as a sultan's palace or a temple. In the pre-adustrial era, Europeans were also responsible for building walls around severa. Southeast Asian cities, such as Malacca, Manila, and Batavia, European institutions,

were concentrated in the cities. These institutions included the colonial governments and the main organizations of a capitalist economy banks, shipping companies, trading companies, and insurance agencies. These institutions, which were almost all European-owned, came to monopolize the essential financial aspects of the economy. In the nineteenth century, as factories were established across Europe. and North America, the Southeast Asian urban economy retained its focus as a trading conduit. Much of the manufacturing that was established was either small scale artisanty (dominated by ethnic middlemen) or shipbuilding and railway repair firms. However, the cities retained an emphasis on

tertiary activities, which include trade, as opposed to secondary activities

The main social feature of colonial cities was the socioeconomic divisions that reinforced ethnic divisions. The European residents "clearly demarcated by the color of their skin, their superior position in the social hierarchy, and their responsibility as colonial rulers lived in encapsulated communities segregated from the major part of the city's population" (McGee, 1967, p. 63)

The contrast between the European quarter and the indigenous quarter was stark. For example, in Java, the principal island of the Dutch East Indies, the native population lived in haphazard conditions. Construction materials were the same as those unliked in the countryside, but under conditions of far greater densities. The press of jerry-built housing left no room for open space and often encroached into floodplains. City services, especially water and sewers, were absent. In fact, some European scholars decried the disorderly conditions, which they speculated may encourage a "tendency towards social discontent and unrunness" (Thomas Karsten, quoted in Forbes, 1996, p. 8)

Chinese Population The third major legacy of European impenalism came from the expansion of the Chinese population Of course, the Chinese had long been influential in this region. Vietnam, for instance, was often considered to be a part of the Chinese sphere of influence and was expected to pay tribute to the Chinese emperor. Chinese emigrants settled in trading cities before the rise of European imperialism. But it was during the colonial period that Chinese settlement flourished. Many Chinese were encouraged to move to these regions during the Ming Dynasty (1368-1644) as ambassadors of trade, and they continued to move even when the Manchu Dynasty which followed the Ming Dynasty, forbade it. Settlement in Southeast Asia afforded a degree of autonomy and prospenty that was not possible within much of China itself. In addition, most Europeans were favorably disposed toward the Chinese minority. They established the Chinese as a classic middleman minority, situated between the colonialists and the indigenous population. Most Chanese established themselves as small traders and retailers, serving the native population. A substantial proportion of artisans were also Chinese.

Partly as a legacy and partly because of their continued success in business, the Chinese became a relatively prosperous minority, about twice as affluent as the native population in several colonies. They also came to comprise a substantial proportion of the population of several Southeast Asian countries, and an even larger proportion of the business population. Today, the percentages vary between Singapore, where the Chinese constitute a clear majority, and places like the Philippines where they are a much smaller minority (Figure 15.17). Nevertheless, the Chinese remain a visible presence in almost every society, particularly within the urban meas. They are an even greater business presence.

From the beginning, the Chinese population was separated residentially and commercially into distinct "Chinatowns." These Chinatowns became very significant as commercial centers. They were usually located adjacent to the European CBD, and they were far denser and more populous than the European centers.

The Chinese also became an important element in the pontical landscape in many Southeast Asian countries, especially after independence For example, in Singapore, where they constitute a majority of the population, they wield political control. Significantly, in some other countries such as Malaysia and Indonesia, where the Chinese are economically powerful, they are also often used as scapegoats. For instance, Chinese merchants in cities such as Jakarta are often targeted during times of civil unrest. The term "Jews of the East" has been used to describe the Chinese in Southeast Asia, although the Chinese presence is, if anything far more prominent in Southeast Asia than was the Jewish presence in Europe

Modern Southeast Asian Cities

After World War II and into the 1950s, Southeast Asian countries became independent, although in many cases they were forced to fight for their independence. As we have just seen, the economic and political roles of many of the large cities in this region

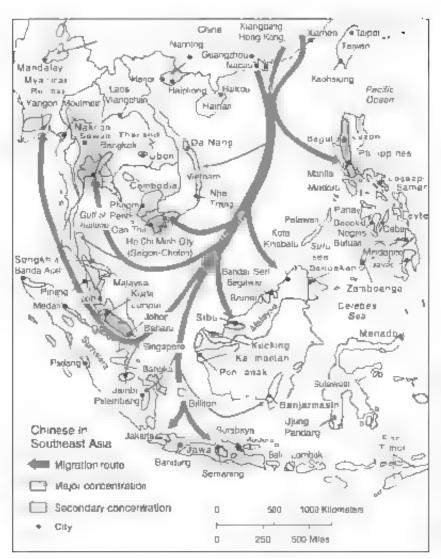


Figure 15.17 Takiny Shui heast Asia conturns more than half the world total of overseas Chinese. This map shows the important flows hat took place from southern China to south Vie-nam southern Malay Java, and other regions. Relations between the Chinese and thost population have been economically beneficial but sometimes portically and socially votable. Source De Big, Harria and Malier, Peter, 2003. Repetited with permission of John Wiley & Sons, Inc.

became established during the colonial period, as did many of the cultural aspects of these cities. Nevertheless, independence brought changes to Southeast Asian cities. Mos. obviously, after independence there were no longer large numbers of Europeans and European cic laves. Instead, these neighborhoods were taken over by the indigenous of te. The political economy also changed. Each country could choose its own path, aithough all were shackled by the colonial economy that they inherited

One dramatic change was rapid urbanization. During the 1950s and 1960s the urban growth rates exceeded 4 percent per year in most cases. In 1940, no city in the region had more than 1 million people. In contrast, by 1970 seven cities did, and by 2012, nine cities had populations in excess of 2 million.

This massive growth had implications for the urban infrastructure. The problems plaguing all third world ethes, discussed in Chapter 14, intensified within Southeast Asian cities. The only exception here was Singapore, which was able to modernize rapidly enough to take care of its population. Singapore also benefited from a much greater degree of initial economic prosperity, a lower population growth rate, and, after 1965, its status as an independent city-state. But beyond this one example, Southeast Asian cities remained poor

Problems of Development The many difficulties facing Southeast Asian cities were detailed by scholars writing in the 1960s and 1970s. Chief among the problems was that industrialization was not keeping pace with urbanization. In other words, Southeast Asian cities were adding people, but they were not adding the kinds of manufacturing jebs that could provide a solid base for an urban economy. The service economy that had marked these cities during the colonial era continued, while manufacturing atrophied. For instance, manufacturing employment in Rangoon, Burms, declined from 24 percent of total employment in 1931 to 18 percent in 1953, a pattem witnessed in other cities as well. Manufacturing employment was less than 20 percent in all major. cities during the 1950s, with the exception of Magila.

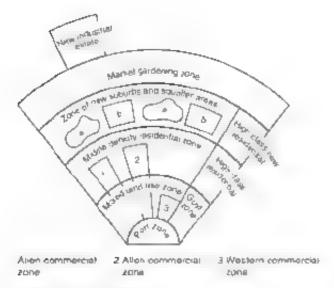
In an advanced economy, such a decline would not be viewed with alarm, but Southeast Asia was far for poor and undeveloped to be able to afford this Of course, the decline in manufacturing meant that many of the new arrivals could not find adequate tobs. They were compelled to enter the informal sector, and in many cases they entered into illicit occupations. For example, some Southeast Asian cities became well-known centers of the sex trade

Not only could these cities not provide enough jobs, but they lacked adequate housing for the new arrivals. Consequently, each of the major cities developed a significant number of squatter settlements. McGee (1967) estimated that as of 1961, 25 percent of the populations within the city binits of Jakarta. Kuala Lampur, Manila, and Singapore lived in some sort of squatter arrangement, sleeping on the street or within an illegalty occupied house. The tack of jobs and housing led to social problems that were concentrated in the cities. Income disparities between the few clife and the many impoverished, ethnic tensions, particularly between the indigenous population and the Chinese ethnics; and even crime, which was far higher in the cities than in the countryside, plagued the Southeast Asian cities.

In Southeast Asia, some countries took the socialist path, leading to the long war that involved nearly every country in the region in some form or another as well as France, the United States, China, and

the Soviet Union Socialism had several ramifications for the cities involved. In some cases, socialist governments attempted to reduce the urban population, particularly within the primate cities. The most trugic example occurred after the Khmer Rouge took control of Cambodia in 1975. The city of Phnom-Perh, which contained 3 million of the country's 8 million people, was forcibly deurbanized. All residents were forced out under pain of death, and many were massacred outright. In less than a year, the city's population shrank to only 50,000. Less dracontan measures were taken in Surgon after it was conquered by the Communist north and renamed Ho Chi Minh City, Rural-to-urban migration was restricted and there were attempts in the fate 1970s to move some 1.5 million people out of Ho Chi Manh City, although these plans were never completely fulfilled. Socialist governments also adopted strict guidelines for urban development. For example, Hanor, the longest lasting socialist city, had virtually no private stores, few automobiles (bicycles ruled the roads), and huge, government-constructed housing projects on the fringe of the city

Prosperity and Urban Form The first generalized model of the modern Southeast Asian city (Figure 15-18) was based around the old colonial eraport and included a Western-style CBD. In many ways this model resembled the big city downtowns from the colonial period, with the wide streets, modcm hotels, and add buildings on display. The second CBD was usually a Chinatown, which was far more bustling than the Western CBD. Some cities also had an Indiatown, providing yet another commercial core. Occupying a distinct sector beside the Westem CBD was the elite corridor. This sector began with the government buildings, continued through the high-class residential area formerly occupied by the Europeans, and then terminated in the new suburban estates. Outside of this corndor, residential zones. tended to be laid out a bit more haphazardly than in Western cities. The fringe areas included squatter settlements as well as new suburban communities. Beyond hese fringe areas was an intensive market garden zone



s Squatter areas - 5 Suburbs

Figure 15.18 Model of a Southeast Asian city, which shares many of the attributes of other ex-colonial, third world cities. Poor squatter areas are found on the persphery and there is the continued legacy of colonialism within the CBD and some of the more afficient neighborhoods in addition, the Chinese and (to some extent) Indian businesses are found within the "alien commercial" zones shown perc. Nearre Messee, T. J. 1907

The 1980s and 1990s were largely kind to Southeast Asia. War ceased, ideology subsided, and many pational economies grew at (peredibly rapid rates. Economic growth rates of between 7 and 10 percent every year were common. Manufacturing finally caught up to urban development, and several countries (Singapore, Thuland, Malaysia, Indonesia, and the Philippines) emerged as major exporting economies. As a result, the cities became more dynamic and prosperous. More and more people came to be considered middle class—perhaps one third of the total population in several countries. Some planners suggest that the urban pattern should be altered to incorporate certain Westernized elements, gated residential communities, suburban shopping complexes, outlying job opportunities—in short, edge cities. This is a way for newly affluent people to enjoy their wealth and also to escape the continued ills of the poor and the perceived violence of the city. In many cities the rise of large "new towns," which bundle together many of these elements, has become quite visible (Figure 15/19)

WRAPPING UP

Certainly some common attributes are associated with all third world cities. Nevertheless, it would be a mistake to consider only the similarities. To be sure, all third world cities are greatly influenced by less developed economies, substantial urbanization, and the influence of colonialism, but these factors vary

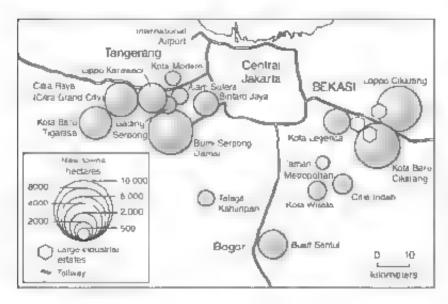


Figure 15.19 As third world cities have mushroomed in size, governments have tried to redistribute some of this population through the creation of "new towns." This map shows the location of new towns within the Jakarta, Indonesia area (see also the box on Egypt's new towns in Chapter 14). Source Dick, H W and P J Rimmer, 1998.

by degree. European colonialism affected nearly all third world cities, for example, but each broad region of the world experienced indigenous urbanization prior to this. The legacy of precolonia, cities can be extraordinarily sign floant, as was true of the South Asian bazaar city, or it can be more of an ancient relic as is the case with most Latin American cities.

The patterns of colonialism are also important. Different European powers attempted to pattern the colonial city after cities in their homeland. There were also very different approaches to how imperial governments hundled the indigenous population. Boxes 15.3 and 15.4 give examples of cities that emerged under different conditions

BOX 15.3 THE MIDDLE EASTERN CATA

As discussed in Chapter 2, the first cates in the world appeared in present-day ling. This region is part of what we now consider the Middle East, a bound territory extending from Morocco to Iran. From these beginnings, cause diffused throughout the region: into the area that is now nonhern ling, along the Nile River, and throughout the Mediterranean world. Many cities were also founded along the major inland trading routes. But the Middle Eastern city of today owes most of its character to the growth and expansion of Islam during the seventh and eighth centures.

Is not entirely to what is perhaps the most fundamental aspect of Middle Eastern cities, the blending together at the core of the main mosque and the bazast. At the very center of the city, the main (or Finday) mosque defines the religious character of the Middle Eastern city and combines many social and spiritual aspects of life (Figure B15.4). Melded in with the mosque is the bazast, which is both the primary commercial center of the city and the citief public space. The bazast is composed of numerous stalls located



Figure B15.4 Islamic cines contain a central or "Finday" mosque. This scene is from Carro, Egypt

in passages, and it is often covered. It can form a compact nucleus, and it is often linear, snaking from one part of the city to the pext.

Janet Abu-Lughori (1987) identifies three themes that help to characterize the Islamic city. One is the relative stability of neighborhoods, which function as truly cohesive communities of socially similar people. There is little population shifting within the city, and many neighborhoods enjoy a long regary. The neighborhoods have historically functioned as building blocks in the Middle Eastern city, segregating the population on the basis of family groupings, religion, and ethnicity. This segregation was mostly voluntary, although at ames it slipped into a means of control as people were compelled to live in certain quarters. These neighborhoods traditionally included dominant, wealther households and poorer, more subordinate households.

The second theme is gender segregation and the creation of male and female spaces. Urban design was meant to protect visual privacy and included regulations on building heights, window placement, and the layout of houses. These were all intended to shield women from strangers' eyes. Strict gender segregation also has readered a more clearly defined division among public (male). private (female), and semiprivate spaces. Abu-Laighod. (1987) describes a house in Saudi Arabia where there is "a. wing for the men, usually on the first floor, with an occess. to the garden and to the ground floor balconies. second and third floors belong to the women, one is for daily living and another for receiving guests" (p. 26). The third theme is the relative strength and cohesion of the neighborhood unit. The neighborhood maintains its social integrity even in the face of wider neglect and even chaos "Neighborhood" in this case becomes a defensible space. The fact is that, although many Middle Eastern cities have a confusing took, they enjoy a tight-kait and lugical organization.

BOX 15.4 THE MODERN CHINESE CITY

The modern Chinese city is reflective of all the grandeur of past empires, the oppression of past cotomalism, and the dreams of a new socialist reality. Today, causes in China are impidly outening a new are of global capitalism, with free markets, glass office towers, this shopping streets, private housing, and social stratification—all balanced against a political regime (that is stall Communist.)

Of course, the Chinese city has a long and illustrious history, some of which we discussed in Chapter 2. However, the functeenth and early twentieth centuries were not kind to China's economy and to its cities. Although China was never politically colonized, it became an effective economic colony of several European powers, the British foremost among them. Many Chinese cities were forced to provide residences for Europeans, who controlled most aspects of the economy. In many cities, such as Shanghai, the Europeans lived within special Western enclaves that were exempt from Chinese rule. In Berjing, the European influence was much more mitted—the city remained the center of government and the home of the empetor—but even there, hotels, military garrisons, charebes, banks, and other Western institutions emerged.

When the Communist Party assumed power in 1949, many Chinese cities were in a state of decay. There was a housing shortage, and most housing that did exist was in a dilapidated condition. Consequently, many people lived in terrible shints. Moreover cities were filthy, with madequate sewage facilities, water supplies, and garbage collection. The Communist government dramatically altered the Chinese city. Class were cleaned up, and the government tought to provide decent housing for everyone. This goal was achieved through the transfer of much of the private housing stock to government ownership and the construction of new housing.

In the process of redeveloping the city, the government also altered the political, social, and economic bases of Chinese cities in several ways. First, all cities were managed from the central government. Second, cities were reoriented toward industrial production, and social areas were reoriented around production sites. The placement of industrial sites prefigured the location of new residential areas. Factories and state enterprises developed their own residential communities right next to the workplace, as discussed in Chapter 14. Other functions, such as providing goods and services to the residents, were developed within

these workplace units, thus integrating employment, residential, service, and retail functions in one area. Third, with the exception of the Communist Party elite, there was no neighborhood stratification by social class. Because the newly built housing was adjacent to the work units and almost all housing was adjacent to the work units and almost all housing was allocated by work units, this resulted in a great deal of occupational and social segregation. At the same time, some housing divisions did exist among the different work units and often among the old inner-city areas (often with the worst housing), newer areas inhabited primarily by factory workers, and areas occupied by Communist officials.

More recently, economic reforms have allowed for the quasi-ownership of land, which may now be leased or bought outright. The move toward a capitalist economy has increased income disparities within Chinese society. Within cities, new social ateas have emerged. High-priced commercial market housing has been built in distinct neighborhoods of the city. This housing provides more space and more exclusivity than regular bousing (Figure B15.3). It has also led to greater emphasis on consumer goods. Restaurants, health clubs, and dance halls have opened up to accommodate the desires of the newly affluent. These trends are likely to continue as China's economy expands as a whole and as economic disparities among individuals, which are already substantial, deepen.

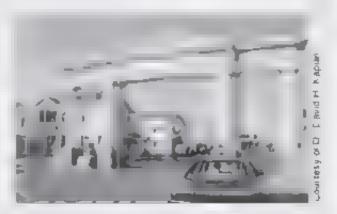


Figure B15.5 Changes in the Chanese economy and land markets have allowed for the development of affinent residential neighborhoods.

Cities also differ in regard to culture. In this chapter, we have chosen to categorize cities in their location in broad cultural realms, such as the Southeast Asian city, but, in fact, culture is present at several scales, down to the ethnic characteristics of urban neighborhoods. Great disparities also exist in levels of economic development. Some cities are clearly middle income, even verging on rich. Singapore's per capita income rivals that of the

United States. Other cities are desperately poor and are completely overwhelmed by the onrush of people. These social, political and economic differences generate different urban geographies. There are models of each type of city, and these are useful ways to start thinking about cities, but it is important to remember that each city is a product of a unique set of conditions.

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